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April 29, 2005

Mr. Michael Romero  
Oregon Department of Environmental Quality  
2020 SW Fourth Ave., Suite 400  
Portland, OR 97201

**Re: Groundwater Monitoring/Project Status Update Report  
First Quarter 2005  
Kinder Morgan Liquid Terminals, LLC  
Linnton Terminal  
Portland, Oregon  
DEQ No. WPMVC-WMCVC-NWR-00-17  
Delta Project No. PTKM-010-3**

Dear Mr. Romero:

Delta Environmental Consultants, Inc. (Delta) has prepared this groundwater monitoring/project status update report on behalf of Kinder Morgan Liquid Terminals, LLC (KMLT) for the KMLT Linnton Terminal located at 11400 NW St. Helens Road in Portland, Oregon (Figure 1). Quarterly groundwater monitoring is currently being conducted at the site in accordance with the Remedial Investigation (RI) Work Plan dated February 2002. Field procedures were performed in accordance with Delta's standard operating procedures for quality assurance and quality control (QA/QC).

## SCOPE OF WORK

The following scope of work was conducted as part of the first quarter 2005 groundwater monitoring and sampling event and the installation and operation of the Interim Remedial Action Measures (IRAM) system.

- On February 1 and 2, 2005, 34 groundwater monitoring wells and piezometers were monitored, and 12 wells were sampled.
- Monthly separate phase hydrocarbon (SPH) recovery was performed on each well containing SPH that is not addressed by the IRAM Area Containment system during the reporting period.

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- Checked absorbent booms weekly during January, February and March 2005.
- Continued operation and maintenance (O&M) of IRAM System.

## METHODS AND PROCEDURES

Groundwater monitoring field activities conducted on February 1 and 2, 2005 consisted of collecting water level measurements in Wells MW-1 through MW-24, P-1, P-2, P-3, P-4, P-5 and RW-1 through RW-5 as well as measuring parameters and collecting samples from Wells MW-4, MW-7, MW-8, MW-9, MW-12 through MW-15, MW-17, MW-18, MW-22, and MW-24. The approximate site boundaries, site structures and the approximate locations of the monitoring wells are presented in Figure 2.

The parameters measured in the wells consisted of water level measurements, pH, specific conductance and temperature. The static water levels were measured in Wells MW-1, MW-2, MW-3, MW-4, MW-7 through MW-10, MW-12 through MW-24, P-1 through P-5, RW-1 through RW-5 on November 1, 2004. A depth-to-water measurement could not be attained from Well MW-11 due to the fouling of the probe by the relatively high viscosity SPH layer in that well. In addition, depth-to-water measurements could not be collected from Wells MW-5 and MW-6 because both wells were dry at the time of the field sampling event.

Water level measurements were obtained by slowly lowering an electronic water level indicator into the well until the instrument indicated that the groundwater surface had been encountered. The measurement was made from a location permanently marked on the top of the casing to within the nearest 0.01 foot. If SPH was present in any of the monitoring wells, the thickness of the layer was measured and recorded. Each water level measurement was repeated at least once to verify the accuracy of the initial measurement.

All measurements were recorded on field sampling forms (Attachment A). Prior to collecting groundwater samples, each monitoring well to be sampled was purged of at least three casing volumes of water. All 12 wells sampled were purged using clean, disposable bailers and new nylon cord or using a centrifugal pump with disposable tubing. Prior to sampling, the wells were allowed to recover to approximately 80% or more of static water level. A total volume of approximately 67 gallons of water was purged from the wells.

After purging each monitoring well, groundwater samples were collected using new disposable bailers. The water samples were placed in laboratory-prepared containers and each sample was appropriately labeled so as to identify the sample number, project name, facility number, the date and time of sample collection and the sampler's name. Each sample was immediately placed in a chilled cooler for storage, and samples were transported to the laboratory using strict chain-of-custody protocols.

## ANALYTICAL METHODS

Collected groundwater samples were submitted to North Creek Analytical of Beaverton, Oregon on February 2, 2005 and analyzed for the following:

- Gasoline range hydrocarbons (TPH-Gx) by NW TPH-Gx Method.
- Diesel and heavy oil range hydrocarbons (TPH-Dx) by NW TPH-Dx Method.
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8021B.
- Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270M-SIM.
- Total metals by EPA 6000/7000 Series Methods.

## RESULTS OF QUARTERLY MONITORING

### Groundwater Elevation and Flow Direction

Depth to groundwater in the measured wells ranged from 8.85 feet below top of casing in Well MW-24 to 22.75 feet below top of casing in Well MW-18. SPH was observed in 16 wells during the first quarter monitoring event (MW-1, MW-2, MW-3, MW-10, MW-11, MW-19, MW-20, MW-21, MW-23, P-4, P-5 and RW-1 through RW-5). SPH ranged from 0.01 foot in Wells MW-16 and MW-23 to 0.98 feet in Well RW-3. The current and historic groundwater elevation data are summarized in Table 1.

Based on the groundwater level measurements taken during this monitoring event, the groundwater flow direction appears to be generally to the northeast, toward the Willamette River. Generally, the groundwater flow direction is consistent with those of past monitoring events. Figure 2 illustrates the approximate water level elevation contours and gradient based upon measurements collected on February 1, 2004.

### Groundwater Analytical Results

Benzene was detected above the laboratory method reporting limit (MRL) in four wells at concentrations ranging from 1.29 micrograms per liter ( $\mu\text{g}/\text{L}$ ) in Well MW-12 to 502  $\mu\text{g}/\text{L}$  in Well MW-9. Toluene, ethylbenzene, and xylene concentrations are generally consistent with the past monitoring events.

PAHs were detected above the laboratory MRL in seven wells at concentrations ranging from 0.0766  $\mu\text{g}/\text{L}$  of benzo(a)anthracene in Well MW-24 to 84.6  $\mu\text{g}/\text{L}$  of acenaphthene in Well MW-8. Detected PAH concentrations are generally similar to historical analytical results. The laboratory flagged the PAH data due to a laboratory contaminant being detected in the method blank. Three wells (MW-4, MW-8, and MW-22) were re-sampled due to laboratory contamination. A summary of the PAH analytical results is presented in Table 3. For the three re-sampled wells, both sets of laboratory data are shown in Table 3.

Concentrations of total petroleum hydrocarbons (TPH) as gasoline were detected above laboratory MRLs in seven of the 12 sampled wells, ranging from 0.317 mg/L in MW-8 and MW-24 to 2.660 mg/L in Well MW-9. Concentrations of TPH as diesel were detected above laboratory MRLs in seven of the sampled wells, ranging from 0.693 mg/L in Well MW-8 to 300 mg/L in Well MW-4. TPH as heavy oil was detected above the laboratory MRL in a sample from four of the wells sampled ranging from 0.512 mg/L in Well MW-22 to 9.640 mg/L in Well MW-24. The laboratory analytical results for TPH are presented in Table 2.

Concentrations of total metals were detected above the laboratory MRL in all 12 sampled wells. Concentrations ranged from 0.00104 mg/L of lead in Well MW-22 to 0.975 mg/L of barium in Well MW-24. The total metal concentrations were typical of previous sampling events. The analytical results for metals are presented in Table 4.

A summary of the laboratory analytical results is presented in Tables 2, 3 and 4. A complete copy of the laboratory report and chain-of-custody documentation is included in Attachment B.

### **Monthly SPH Recovery**

Manual bailing of SPH was conducted at the site once a month during January, February and March 2005. SPH bailing was conducted on the following wells: MW-1, MW-2, MW-3, MW-10, MW-11, MW-20, and MW-21. An approximate total of 4.5 gallons of SPH were recovered during the first quarter of 2005 by manual bailing. Table 1 shows the amount of SPH bailed from each well over the three-month period (first quarter).

### **IRAM System O&M Activities**

The IRAM area containment system was constructed at the site during April through July 2004. The IRAM system extracts groundwater and SPH from five previously installed recovery wells (RW-1 through RW-5) using a two-pump system configuration. In addition, SPH is continuously skimmed off the groundwater surface in Wells MW-2 and MW-19 using a SPH-only pump. Groundwater extraction from the five recovery wells is accomplished using electric submersible pumps. SPH is recovered in each of the five recovery wells and the two monitoring wells (MW-2 and MW-19) using pneumatic pumps equipped with floating intake screens. The SPH is pumped to a holding tank prior to transport to a product recycler. The extracted groundwater is first pumped through a 40-cubic-foot sand filter to remove particulates that may clog the carbon vessels. The effluent from the sand filter is pumped through two 2,000 lb carbon vessels prior to discharge to the Willamette River in accordance with existing NPDES Permit File No. ORG 910059.

On July 26, 2004, Delta initiated continuous operation of the IRAM area containment system. Currently, O&M site visits are conducted twice a week. During these visits, the system operation is monitored and the system components are adjusted or maintained as needed. System adjustments and maintenance checks involve tasks such as cleaning pump control sensors, removing collected SPH from the storage tank, backflushing the carbon vessels and sand filter, cleaning the batch tank and controls,

checking the operation of the groundwater and SPH pumps, adjusting flow rates, and compliance sampling. Measurements and readings recorded during each of the site visits are as follows:

- Pressure readings at the manifold, sand filter, and both carbon vessels.
- Flow totals for each of the recovery wells.
- Transducer readings (Liquid level in each well).
- Operating electrical frequency.
- SPH level in the product storage tank.

In addition, the condition of the hard boom and absorbent booms are checked and noted in the field notes. The field technician also checks for the presence or absence of a sheen within the boomed area.

This information is used to evaluate the performance of the system. During the first quarter of 2005 (the third quarter the IRAM system was operated), the system was down for approximately one month (March 2005). This was due to a bad transfer pump that had to be replaced. The system operated during January and February 2005. In addition, the liquid level data collected during the January and February visits indicate that the pumping lowered the groundwater level immediately adjacent to the recovery wells during this time frame. Delta re-started the system during April 2005 and will continue to monitor the liquid levels during the second quarter of 2005 and will adjust the flow rates of the pumps to attempt to maximize the groundwater capture zone of the IRAM system.

### **ACTIVITIES SCHEDULED FOR THE SECOND QUARTER OF 2005**

- Perform monthly SPH removal from wells that have historically contained SPH.
- Complete the final phase of the RI field work.
- Sample selected monitoring wells during the April 2005 sampling event (second quarter event).
- Perform weekly inspections of the containment booms in the seep area.
- Continue O&M of the IRAM area containment system.
- Perform pumping performance test for source control evaluation.

### **CONCLUSIONS**

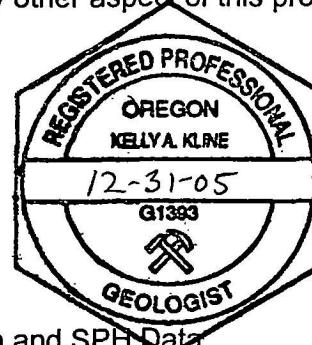
Groundwater will continue to be monitored on a quarterly basis. The next sampling event will be conducted during the second quarter 2005. Delta will continue operation and maintenance of the IRAM system. The system has been effectively removing impacted groundwater and SPH from the subsurface. Delta will continue to monitor and adjust the system to maximize the recovery of groundwater and SPH.

Please contact Mr. Steve Osborn of KMLT at (707) 249-1633 or the undersigned if you have any questions regarding this report or any other aspect of this project.

Sincerely,  
**Delta Environmental Consultants, Inc.**



Kelly A. Kline, R.G.  
Senior Geologist



Attachments: Table 1 - Groundwater Elevation and SPH Data  
Table 2 - Groundwater Sample Analytical Results- TPH, BTEX-N  
Table 3 - Groundwater Sample Analytical Results- PAHs  
Table 4 - Groundwater Sample Analytical Results- Total Metals  
Figure 1 - Site Location Map  
Figure 2 - Groundwater Elevation Contours and SPH Thickness

Attachment A - Field Forms

Attachment B - Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Steve Osborn, KMEP  
Ms. Esther Lee, KMEP (file copy)  
Mr. Wally Stevenson, KMEP  
Mr. Gregg Lies, KMEP

**TABLE 1**  
**GROUNDWATER ELEVATION AND SPH RECOVERY DATA**  
Kinder Morgan Liquid Terminals LLC  
Linnton Terminal  
Portland, Oregon

Well Identification	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)
MW-1	02/01/02	13.34	13.34	sheen	14.64	-
(27.98)	04/24/02	13.26	13.26	sheen	14.72	-
	07/29/02	15.82	15.80	0.02	12.18	0.41
	10/29/02	18.41	18.40	0.01	9.58	-
	11/26/02*	17.91	17.81	0.10	10.15	-
	12/30/02	15.63	15.63	sheen	12.35	0.56
	01/28/03	15.15	NP	0.00	12.83	0.00
	04/29/03	13.15	NP	0.00	14.83	0.00
	07/29/03 <sup>2</sup>	16.31	16.31	sheen	11.67	0.60
	10/28/03	17.35	17.18	0.17	10.77	-
	01/29/04	13.30	13.20	0.10	14.76	1.80
	04/28/04	15.84	15.73	0.11	12.23	0.30
	07/26/04	17.33	17.18	0.15	10.77	0.50
	11/01/04	17.72	17.14	0.58	10.72	0.60
	02/01/05	16.65	16.34	0.31	11.58	0.90
MW-2	01/29/02	14.27	13.60	0.67	14.74	2.50
(28.47)	04/24/02	13.96	13.37	0.59	14.98	0.55
	07/29/02	16.50	16.16	0.34	12.24	1.20
	10/29/02	18.93	18.92	0.01	9.55	1.30
	11/26/02*	18.82	18.52	0.30	9.89	-
	12/30/02	16.81	16.33	0.48	12.04	-
	01/28/03	16.04	15.70	0.34	12.70	0.65
	04/29/03	13.81	13.27	0.54	15.09	1.10
	07/29/03	17.23	16.92	0.31	11.49	5.00
	10/28/03	19.53	17.58	1.95	10.50	-
	01/29/04	14.48	13.31	1.17	14.93	4.20
	07/26/04	15.34	15.05	0.29	13.36	0.20
	11/01/04	17.03	14.86	2.17	13.18	IRAM Sys
	02/01/05	14.08	14.00	0.08	14.45	IRAM Sys
MW-3	01/29/02	13.04	12.86	0.18	16.07	0.25
(28.97)	04/24/02	13.11	13.00	0.11	15.95	0.40
	07/29/02	14.69	14.42	0.27	14.50	0.55
	10/29/02	16.11	NP	Sheen	12.86	0.51
	11/26/02*	16.08	15.72	0.36	13.18	-
	01/28/03	14.15	14.07	0.08	14.88	0.35
	04/29/03	12.75	12.71	0.04	16.25	0.45
	07/29/03	15.03	14.83	0.20	14.10	1.05
	10/28/03	15.58	15.51	0.07	13.45	-
	01/29/04	12.87	12.84	0.03	16.12	0.20
	04/28/04	14.05	14.00	0.05	14.46	0.25
	07/26/04	15.24	15.14	0.10	13.31	0.20
	11/01/04	15.29	15.25	0.04	13.21	0.20
	02/01/05	15.04	15.00	0.04	13.46	0.30

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Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)
MW-4 (32.88)	02/01/02	17.74	NP	0.00	15.14	-
	04/24/02	17.49	NP	0.00	15.39	-
	07/29/02	20.19	NP	0.00	12.69	-
	10/29/02	22.72	NP	0.00	10.16	-
	01/28/03	19.82	NP	0.00	13.06	-
	04/29/03	17.29	NP	0.00	15.59	-
	07/29/03	20.54	NP	0.00	12.34	-
	10/28/03	21.67	NP	0.00	11.21	-
	01/29/04	17.71	NP	0.00	15.17	-
	04/28/04	20.21	NP	0.00	12.67	-
	07/26/04	21.74	NP	0.00	11.14	-
	11/01/04	21.75	NP	0.00	11.13	-
	02/01/05	21.03	NP	0.00	11.85	-
MW-5 (40.08)	01/31/02	21.73	NP	0.00	18.35	-
	04/24/02	21.76	NP	0.00	18.32	-
	07/29/02	23.87	NP	0.00	16.21	-
	10/29/02	DRY	NP	0.00	DRY	-
	01/28/03	23.81	NP	0.00	16.27	-
	04/29/03	20.95	NP	0.00	19.13	-
	07/29/03	24.46	NP	0.00	15.62	-
	10/28/03	DRY	NP	0.00	DRY	-
	01/29/04	21.91	NP	0.00	18.17	-
	04/28/04	23.21	NP	0.00	16.87	-
	07/26/04	Dry	NP	0.00	-	-
	11/01/04	Dry	NP	0.00	-	-
	02/01/05	Dry	NP	0.00	-	-
MW-6 (36.93)	02/01/02	16.77	NP	0.00	20.16	-
	04/24/02	17.82	NP	0.00	19.11	-
	07/29/02	20.85	NP	0.00	16.08	-
	10/29/02	21.51	NP	0.00	15.42	-
	01/28/03	19.72	NP	0.00	17.21	-
	04/29/03	15.88	NP	0.00	21.05	-
	07/29/03	DRY	NP	0.00	DRY	-
	10/28/03	21.61	NP	0.00	15.32	-
	01/29/04	16.59	NP	0.00	20.34	-
	04/28/04	19.72	NP	0.00	17.21	-
	07/26/04	Dry	NP	0.00	-	-
	11/01/04	21.58	NP	0.00	-	-
	02/01/05	21.35	NP	0.00	-	-
MW-7 (32.26)	01/31/02	17.74	NP	0.00	14.52	-
	04/24/02	17.81	NP	0.00	14.45	-
	07/29/02	20.06	NP	0.00	12.20	-
	10/29/02	22.40	NP	0.00	9.86	-
	01/28/03	19.02	NP	0.00	13.24	-
	04/29/03	16.23	NP	0.00	16.03	-
	07/29/03	20.52	NP	0.00	11.74	-
	10/28/03	21.41	NP	0.00	10.85	-
	01/29/04	16.49	NP	0.00	15.77	-
	04/28/04	19.78	NP	0.00	12.48	-
	07/26/04	21.30	NP	0.00	10.96	-
	11/01/04	21.31	NP	0.00	10.95	-
	02/01/05	20.42	NP	0.00	11.84	-

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						SPH	(gallons)
MW-8	02/01/02	17.01	NP	0.00	13.05	-	
(30.06)	04/24/02	16.58	NP	0.00	13.48	-	
	07/29/02	19.32	NP	0.00	10.74	-	
	10/29/02	20.83	NP	0.00	9.23	-	
	01/28/03	18.47	NP	0.00	11.59	-	
	04/29/03	16.93	NP	0.00	13.13	-	
	07/29/03	20.06	NP	0.00	10.00	-	
	10/28/03	20.43	NP	0.00	9.63	-	
	01/29/04	17.00	NP	0.00	13.06	-	
	04/28/04	19.59	NP	0.00	10.47	-	
	07/26/04	20.31	NP	0.00	9.75	-	
	11/01/04	20.30	NP	0.00	9.76	-	
	02/01/05	19.65	NP	0.00	10.41	-	
MW-9	02/01/02	15.25	NP	0.00	15.20	-	
(30.45)	04/24/02	15.49	NP	0.00	14.96	-	
	07/29/02	16.71	NP	0.00	13.74	-	
	10/29/02	18.77	NP	0.00	11.68	-	
	01/28/03	16.35	NP	0.00	14.10	-	
	04/29/03	14.31	NP	0.00	16.14	-	
	07/29/03	17.55	NP	0.00	12.90	-	
	10/28/03	18.44	NP	0.00	12.01	-	
	01/29/04	14.67	NP	0.00	15.78	-	
	04/28/04	16.59	NP	0.00	13.86	-	
	07/26/04	17.91	NP	0.00	12.54	-	
	11/01/04	18.20	NP	0.00	12.25	-	
	02/01/05	17.18	NP	0.00	13.27	-	
MW-10	02/01/02	11.84	NP	0.00	18.48	-	
(30.32)	04/24/02	14.00	NP	0.00	16.32	-	
	07/29/02	18.08	17.03	1.05	13.08	0.50	
	10/29/02	20.86	20.72	0.14	9.57	0.13	
	11/26/02*	19.82	19.81	0.01	10.51	-	
	01/28/03	13.84	13.61	0.23	16.66	0.20	
	04/29/03	14.36	NP	0.00	15.96	0.01	
	07/29/03	18.51	NP	0.00	11.81	0.01	
	10/28/03	18.28	NP	0.00	12.04	-	
	01/29/04	12.59	12.28	0.31	17.98	0.40	
	04/28/04	16.51	16.51	Sheen	11.96	0.10	
	07/26/04	19.55	19.55	Sheen	10.77	0.30	
	11/01/04	17.89	17.85	0.31	12.68	0.20	
	02/01/05	16.08	15.98	0.10	14.32	0.30	

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Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)
MW-11 (35.03)	01/29/02	19.06	NP	0.00	15.97	0.17
	04/24/02	18.91	18.48	0.43	16.46	0.25
	07/29/02	22.02	20.75	1.27	14.03	0.95
	10/29/02	25.50	23.20	2.30	11.37	1.95
	11/26/02*	25.10	23.05	2.05	11.57	-
	01/28/03	21.00	20.65	0.35	14.31	0.45
	04/29/03	20.06	18.55	1.51	16.18	0.60
	07/29/03	-	21.15	>3.0	-	0.65
	10/28/03	-	22.30	-	-	-
	01/29/04	-	18.99	-	-	0.40
	04/28/04	-	19.42	-	-	2.35
	07/26/04	-	21.41	-	-	0.95
	11/01/04	-	22.55	-	-	5.25
	02/01/05	-	21.72	-	-	0.50
MW-12 (34.03)	01/31/02	14.85	NP	0.00	19.18	-
	04/24/02	15.32	NP	0.00	18.71	-
	07/29/02	16.77	NP	0.00	17.26	-
	10/29/02	17.99	NP	0.00	16.04	-
	01/28/03	16.21	NP	0.00	17.82	-
	04/29/03	14.99	NP	0.00	19.04	-
	07/29/03	16.56	NP	0.00	17.47	-
	10/28/03	17.61	17.60	0.01	16.43	-
	01/29/04	14.98	NP	0.00	19.05	-
	04/28/04	15.76	NP	0.00	18.27	-
	07/26/04	16.97	NP	0.00	17.06	-
	11/01/04	17.57	NP	0.00	16.46	-
	02/01/05	16.75	NP	0.00	17.28	-
MW-13 (35.81)	01/31/02	17.67	NP	0.00	18.14	-
	04/24/02	18.35	NP	0.00	17.46	-
	07/29/02	19.35	NP	0.00	16.46	-
	10/29/02	25.42	NP	0.00	10.39	-
	01/28/03	20.52	NP	0.00	15.29	-
	04/29/03	17.41	NP	0.00	18.40	-
	07/29/03	21.47	NP	0.00	14.34	-
	10/28/03	24.25	NP	0.00	11.56	-
	01/29/04	17.97	NP	0.00	17.84	-
	04/28/04	20.22	NP	0.00	15.59	-
	07/26/04	22.07	NP	0.00	13.74	-
	11/01/04	23.90	NP	0.00	11.91	-
	02/01/05	21.43	NP	0.00	14.38	-
MW-14 (36.54)	01/31/02	17.71	NP	0.00	18.83	-
	04/24/02	18.42	NP	0.00	18.12	-
	07/29/02	21.47	NP	0.00	15.07	-
	10/29/02	23.99	NP	0.00	12.55	-
	01/28/03	20.62	NP	0.00	15.92	-
	04/29/03	16.91	NP	0.00	19.63	-
	07/29/03	22.26	NP	0.00	14.28	-
	10/28/03	23.68	NP	0.00	12.86	-
	01/29/04	17.79	NP	0.00	18.75	-
	04/28/04	19.94	NP	0.00	16.60	-
	07/26/04	22.72	NP	0.00	13.82	-
	11/01/04	23.45	NP	0.00	13.09	-
	02/01/05	22.05	NP	0.00	14.49	-

**TABLE 1**  
**GROUNDWATER ELEVATION AND SPH RECOVERY DATA**  
Kinder Morgan Liquid Terminals LLC  
Linniton Terminal  
Portland, Oregon

Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)
MW-15 (37.15)	01/31/02	15.12	NP	0.00	22.03	-
	04/24/02	16.13	NP	0.00	21.02	-
	07/29/02	19.93	NP	0.00	17.22	-
	10/29/02	22.59	NP	0.00	14.56	-
	01/28/03	18.26	NP	0.00	18.89	-
	04/29/03	14.28	NP	0.00	22.87	-
	07/29/03	20.63	NP	0.00	16.52	-
	10/28/03	22.41	NP	0.00	14.74	-
	01/29/04	14.80	NP	0.00	22.35	-
	04/28/04	18.42	NP	0.00	18.73	-
	07/26/04	21.19	NP	0.00	15.96	-
	11/01/04	22.10	NP	0.00	15.05	-
	02/01/05	20.35	NP	0.00	16.80	-
MW-16 (38.95)	01/31/02	8.91	NP	0.00	30.04	-
	04/24/02	11.04	NP	0.00	27.91	-
	07/29/02	11.93	NP	0.00	27.02	-
	10/29/02	12.85	12.75	0.10	26.18	0.11
	11/26/02*	12.05	12.00	0.05	26.94	-
	01/28/03	10.11	NP	0.00	28.84	-
	04/29/03	9.85	NP	0.00	29.10	-
	07/29/03	12.14	NP	0.00	26.81	-
	10/28/03	11.83	NP	0.00	27.12	-
	01/29/04	9.23	NP	0.00	29.72	-
	04/28/04	11.12	NP	0.00	27.83	-
	07/26/04	12.17	12.17	Sheen	26.78	-
	11/01/04	11.51	NP	0.00	27.44	-
	02/01/05	11.05	11.04	0.01	27.91	0.10
MW-17 (36.57)	01/31/02	16.93	NP	0.00	19.64	-
	04/24/02	17.83	NP	0.00	18.74	-
	07/29/02	20.83	NP	0.00	15.74	-
	10/29/02	23.38	NP	0.00	13.19	-
	01/28/03	19.87	NP	0.00	16.70	-
	04/29/03	16.04	NP	0.00	20.53	-
	07/29/03	21.59	NP	0.00	14.98	-
	10/28/03	23.15	NP	0.00	13.42	-
	01/29/04	16.16	NP	0.00	20.41	-
	04/28/04	19.80	NP	0.00	16.77	-
	07/26/04	22.08	NP	0.00	14.49	-
	11/01/04	22.91	NP	0.00	13.66	-
	02/01/05	21.40	NP	0.00	15.17	-
MW-18 (36.66)	04/24/02	19.41	NP	0.00	17.25	-
	07/30/02	22.21	NP	0.00	14.45	-
	10/29/02	24.71	NP	0.00	11.95	-
	01/28/03	21.20	NP	0.00	15.46	-
	04/29/03	17.85	NP	0.00	18.81	-
	07/29/03	23.02	NP	0.00	13.64	-
	10/28/03	24.28	NP	0.00	12.38	-
	01/29/04	18.45	NP	0.00	18.21	-
	04/28/04	21.51	NP	0.00	15.15	-
	07/26/04	23.46	NP	0.00	13.20	-
	11/01/04	24.04	NP	0.00	12.62	-
	02/01/05	22.75	NP	0.00	13.91	-

**TABLE 1**  
**GROUNDWATER ELEVATION AND SPH RECOVERY DATA**  
Kinder Morgan Liquid Terminals LLC  
Linnton Terminal  
Portland, Oregon

Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	SPH Recovered by Quarter	
						Recovered by Quarter (gallons)	Recovered by Quarter (gallons)
MW-19 (30.34)	04/29/03	14.88	14.80	0.08	15.52	3.00	
	07/29/03	19.75	17.94	1.81	12.04	8.50	
	10/28/03	20.08	18.88	1.20	11.22	-	
	01/29/04	13.71	13.47	0.24	16.82	1.65	
	04/28/04	18.65	17.48	0.24	11.88	-	
	07/26/04	16.70	16.44	0.26	13.85	IRAM Sys	
	11/01/04	16.99	16.58	0.41	13.68	IRAM Sys	
	02/01/05	NM	15.17	NM	NM	IRAM Sys	
MW-20 (30.25)	04/29/03	13.42	NP	0.00	16.83	-	
	07/29/03	18.26	NP	0.00	11.99	-	
	10/28/03	19.60	19.49	0.11	10.74	-	
	01/29/04	13.75	12.42	1.33	17.56	4.75	
	04/28/04	16.51	16.01	0.50	12.36	-	
	07/26/04	18.65	18.32	0.33	10.08	0.60	
	11/01/04	18.30	18.07	0.23	10.35	1.90	
	02/01/05	15.39	14.89	0.50	13.48	2.10	
MW-21 (30.62)	04/29/03	8.12	NP	0.00	22.50	-	
	07/29/03	17.02	NP	0.00	13.60	-	
	10/28/03	18.62	18.36	0.26	12.21	-	
	01/29/04	9.98	9.78	0.20	20.80	1.00	
	04/28/04	15.72	15.67	0.05	12.79	0.10	
	07/26/04	17.84	17.83	0.01	10.64	0.20	
	11/01/04	16.93	16.89	0.04	11.57	0.30	
	02/01/05	15.55	15.53	0.02	12.94	0.20	
MW-22 (30.19)	04/29/03	15.61	NP	0.00	14.58	-	
	07/29/03	19.75	NP	0.00	10.44	-	
	10/28/03	20.33	NP	0.00	9.86	-	
	01/29/04	14.88	NP	0.00	15.31	-	
	04/28/04	18.69	NP	0.00	11.50	0.05	
	07/26/04	20.14	NP	0.00	10.05	-	
	11/01/04	20.11	NP	0.00	10.08	-	
	02/01/05	18.47	NP	0.00	11.72	-	
MW-23 (37.02)	11/01/04	14.15	NP	0.00	22.87	-	
	02/01/05	13.09	13.08	0.01	23.94	0.10	
MW-24 (38.05)	11/01/04	9.22	Sheen	0.00	28.83	-	
	02/01/05	8.85	NP	0.00	29.20	-	
P-1 (37.89)	01/31/02	-	NP	0.00	-	-	
	04/24/02	19.31	NP	0.00	18.58	-	
	07/30/02	19.72	NP	0.00	18.17	-	
	10/29/02			Unable to Locate			
	01/28/03	19.67	NP	0.00	18.22	-	
	04/29/03	17.71	NP	0.00	20.18	-	
	07/29/03	19.94	NP	0.00	17.95	-	
	10/28/03	19.97	NP	0.00	17.92	-	
	01/29/04	17.36	NP	0.00	20.53	-	
	04/28/04	19.95	NP	0.00	17.94	-	
	07/26/04	20.20	NP	0.00	17.69	-	
	11/01/04	19.60	NP	0.00	18.29	-	
	02/01/05	Dry	NP	0.00	-	-	

**TABLE 1**  
**GROUNDWATER ELEVATION AND SPH RECOVERY DATA**  
Kinder Morgan Liquid Terminals LLC  
Linnton Terminal  
Portland, Oregon

Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)	SPH
P-2	01/31/02	-	NP	0.00	-	-	-
(36.54)	04/24/02	13.99	NP	0.00	22.55	-	-
	07/30/02	15.55	NP	0.00	20.99	-	-
	10/29/02	16.52	NP	0.00	20.02	-	-
	01/28/03	14.66	NP	0.00	21.88	-	-
	04/29/03	12.98	NP	0.00	23.56	-	-
	07/29/03	15.10	NP	0.00	21.44	-	-
	10/28/03	11.15	NP	0.00	25.39	-	-
	01/29/04	13.00	NP	0.00	23.54	-	-
	04/28/04	14.17	NP	0.00	22.37	-	-
	07/26/04	15.70	NP	0.00	20.84	-	-
	11/01/04	16.27	NP	0.00	20.27	-	-
	02/01/05	15.65	NP	0.00	20.89	-	-
P-3	01/29/02	16.93	NP	0.00	16.60	-	-
(33.53)	04/24/02	17.58	NP	0.00	15.95	-	-
	07/30/02	18.90	NP	0.00	14.63	-	-
	10/29/02	19.68	NP	0.00	13.85	-	-
	01/28/03	18.16	NP	0.00	15.37	-	-
	04/29/03	17.29	NP	0.00	16.24	-	-
	07/29/03	18.81	NP	0.00	14.72	-	-
	10/28/03	19.26	NP	0.00	14.27	-	-
	01/29/04	17.24	NP	0.00	16.29	-	-
	04/28/04	18.21	NP	0.00	15.32	-	-
	07/26/04	19.01	NP	0.00	14.52	-	-
	11/01/04	NM	NM	NM	NM	-	-
	02/01/05	18.83	NP	0.00	14.70	-	-
P-4	01/29/02	16.60	NP	0.00	15.15	-	-
(31.75)	04/24/02	15.91	NP	0.00	15.84	-	-
	07/30/02	17.18	16.90	0.28	14.79	-	-
	10/29/02	22.26	NP	0.00	DRY	-	-
	01/28/03	18.08	17.98	0.10	13.75	-	-
	04/29/03	15.55	NP	0.00	16.20	-	-
	07/29/03	18.73	NP	0.00	13.02	-	-
	10/28/03	19.48	19.40	0.08	12.33	-	-
	01/29/04	16.99	16.87	0.12	14.86	-	-
	04/28/04	17.94	NP	0.00	13.81	-	-
	07/26/04	19.43	NP	0.00	12.32	-	-
	11/01/04	19.98	19.97	0.01	11.78	-	-
	02/01/05	NM	19.11	NM	NM	-	-
P-5	01/29/02	14.41	NP	0.00	15.34	-	-
(29.75)	04/24/02	14.40	NP	0.00	15.35	-	-
	07/30/02	16.35	16.31	0.04	13.43	-	-
	10/29/02	18.09	18.17	0.08	11.72	-	-
	01/28/03	14.96	14.95	0.01	14.80	-	-
	04/29/03	14.61	14.60	0.01	15.15	-	-
	07/29/03	19.98	17.96	2.02	11.39	-	-
	10/28/03	18.48	18.15	0.33	11.53	-	-
	01/29/04	14.00	NP	0.00	15.75	-	-
	04/28/04	16.73	NP	0.00	13.02	-	-
	07/26/04	-	-	-	-	-	-
	11/01/04	18.39	17.43	0.96	12.13	-	-
	02/01/05	17.22	16.99	0.23	12.71	-	-

**TABLE 1**  
**GROUNDWATER ELEVATION AND SPH RECOVERY DATA**  
Kinder Morgan Liquid Terminals LLC  
Linnton Terminal  
Portland, Oregon

Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)
RW-1 (28.66)	10/30/02	19.36	NP	0.00	9.30	0.65
	11/26/02*	18.92	18.58	0.34	10.01	-
	01/28/03	16.19	15.94	0.25	12.67	1.65
	04/29/03	14.13	13.67	0.46	14.90	1.05
	07/29/03	18.70	17.04	1.66	11.29	9.00
	10/28/03	18.70	17.80	0.90	10.68	-
	01/29/04	19.20	13.10	6.10	14.34	27.00
	07/26/04	18.20	17.58	0.62	10.96	IRAM Sys
	11/01/04	26.35	23.88	2.47	4.29	IRAM Sys
	02/01/05	NM	21.60	NM	NM	IRAM Sys
RW-2 (28.97)	10/30/02	19.48	NP	0.00	9.49	0.90
	11/26/02*	18.93	18.82	0.11	10.13	-
	01/28/03	19.77	15.86	3.91	12.33	17.25
	04/29/03	17.36	13.73	3.63	14.51	6.75
	07/29/03	19.54	17.23	2.31	11.28	9.00
	10/28/03	18.47	18.23	0.24	10.69	-
	01/29/04	19.37	13.57	5.80	14.24	33.00
	07/26/04	-	17.00	-	-	IRAM Sys
	11/01/04	22.17	20.35	1.82	8.26	IRAM Sys
	02/01/05	NM	19.18	NM	NM	IRAM Sys
RW-3 (29.23)	10/30/02	22.11	19.50	2.61	9.21	13.50
	11/26/02*	22.96	18.81	4.15	9.59	-
	01/28/03	22.58	15.98	6.60	11.93	30.00
	04/29/03	18.11	13.97	4.14	14.43	18.50
	07/29/03	19.63	16.66	2.97	11.98	8.25
	10/28/03	19.03	18.49	0.54	10.63	-
	01/29/04	18.33	14.03	4.30	14.34	29.00
	04/28/04	22.87	16.6	6.27	10.62	-
	07/26/04	24.44	17.34	7.10	9.71	IRAM Sys
	11/01/04	20.68	20.37	0.31	8.04	IRAM Sys
	02/01/05	20.38	19.4	0.98	8.87	IRAM Sys
RW-4 (29.69)	10/30/02	20.27	NP	0.00	9.42	-
	01/28/03	18.00	16.58	1.42	12.83	7.50
	04/29/03	16.96	14.59	2.37	14.63	6.50
	07/29/03	18.76	18.50	0.26	11.14	0.70
	10/28/03	18.98	NP	0.00	10.71	-
	01/29/04	17.90	14.07	3.83	14.85	13.00
	04/28/04	18.56	17.41	1.15	10.83	-
	07/26/04	17.50	17.2	0.30	11.21	IRAM Sys
	11/01/04	22.27	21.98	0.29	6.43	IRAM Sys
	02/01/05	21.55	21.2	0.35	7.20	IRAM Sys

**TABLE 1**  
**GROUNDWATER ELEVATION AND SPH RECOVERY DATA**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Well Identification (TOC)	Date Gauged	Depth to Water (ft)	Depth to SPH (ft)	SPH Thickness (ft)	Groundwater Elevation <sup>1</sup> (ft)	Recovered by Quarter (gallons)
RW-5 (29.83)	10/30/02	20.32	NP	0.00	9.51	0.01
	01/28/03	15.95	NP	Sheen	13.88	0.05
	04/29/03	15.31	NP	Sheen	14.52	0.25
	07/29/03	19.17	19.10	0.07	10.72	0.10
	10/28/03	19.38	19.36	0.02	10.47	-
	01/29/04	15.41	14.50	0.91	15.15	4.50
	04/28/04	18.45	17.80	0.65	10.54	-
	07/26/04	17.52	17.50	0.02	10.97	IRAM Sys
	11/01/04	20.52	20.43	0.09	8.02	IRAM Sys
	02/01/05	20.91	19.35	1.56	8.81	IRAM Sys

**NOTES:**

NP = No Measurable Product

<sup>1</sup> = Elevation relative to 1988 North American Vertical Datum (NAVD)

<sup>2</sup> = Not Sampled. Sheen observed during gauging. SPH measured after purging at 0.05 ft. thickness.

- = Not measured, not analyzed, not sampled or not applicable

Groundwater elevations corrected for product thickness using formula:  

$$\text{GWE} = \text{TOC} - \text{DTW} - (0.8 \times (\text{DTW} - \text{DTP}))$$
 where 0.8 is the density of the SPH

\* = Additional RI Sampling

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - TPH BTEX**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethyl-benzene ( $\mu\text{g/L}$ )	Xylene (total) ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Gasoline ( $\mu\text{g/L}$ )	Diesel ( $\mu\text{g/L}$ )	Heavy Oil ( $\mu\text{g/L}$ )
MW-1	02/01/02	2.50 U	2.50 U	2.50 U	5.00 U	31.5	2,610	NA	NA
	11/26/02*	1.00 U	1.00 U	1.00 U	3.00 U	2.00 U	797	30,000	3,700
	01/29/03	1.00 M	1.00 M	1.00 M	2.00 M	20.0 M	3,610	118,000	13,700
	04/30/03	0.500 M	0.500 M	0.500 M	1.00 M	2.00 M	1,390	129,000	14,100
MW-2	11/26/02*	1.00 U	1.00 U	1.00 U	3.00 U	23.3	1,350	148,000	14,100
MW-3	11/26/02*	1.00 U	1.00 U	1.00 U	3.00 U	2.31	1,280	198,000	500 U
MW-4	02/01/02	0.500 U	0.500 U	0.500 U	1.00 M	2.00 U	884	NA	NA
	05/01/02	2.50 U	2.50 U	2.50 U	5.00 U	31.5 J	2,610	NA	NA
	07/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	169	12,600	500 M
	10/30/02	0.500 M	0.500 M	0.500 M	1.00 M	3.50 M	479	33,000	500 M
DUP	10/30/02	0.500 M	0.500 M	0.500 M	1.00 M	2.00 M	535	2,480	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	1.20 M	326	16,900	500 M
	04/30/03	0.500 M	0.500 M	0.500 M	1.00 M	2.50 M	119	10,800	500 M
	07/29/03	0.500 M	0.504	0.764	4.39	NA	125	50,100	2,500 M
	10/28/03	0.500 M	0.757	0.500 M	2.51	NA	1,180	120,000	10,000 M
	01/30/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	81.7	82,600	1,000 M
	04/29/04	0.500 M	0.986	0.500 M	1.00 M	NA	80.0 M	16,900	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	150	17,400	500 M
	11/01/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	193	16,500	2,500 M
	02/02/05	0.500 M	0.500 M	0.500 M	1.62	NA	2,060	300,000	500 M
MW-5	02/01/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 M	2.00 U	80.0 U	250 U	500 U
	07/30/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	NA	NA
	01/28/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	563	500 M
	04/30/03	0.500 M	0.500 M	0.500 M	1.00 M	0.200 M	80.0 M	472	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	713	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	905	500 M
MW-6	02/01/02	30.6	12	12.4	11.3	2.00 U	2,270	NA	NA
	04/24/02	37.1	6.34	6.03	8.45	2.00 U	2,140	250 U	500 U
	07/30/02	16.6	1.51	1.92	5.86	2.00 M	1,730	NA	NA
	01/29/03	6.84	1.52	1.22	2.39	2.00 M	1,800	250 M	500 M
	04/29/03	31.3	4.34	2.30	1.51	1.70 M	2,080	250 M	500 M
	01/29/04	53.7	3.51	3.52	6.98	NA	2,610	1,350	500 M
DUP	01/29/04	51.2	3.33	3.26	6.44	NA	2,350	1,220	500 M
	04/28/04	53.8	4.63	1.25	3.22	NA	2,620	1,200	500 M
MW-7	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	250 U	500 U
	07/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	250 M	500 M
	10/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	98.7	250 M	500 M
	01/28/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.250 M	80.0 M	250 M	500 M
	07/29/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	10/28/03	0.500 M	2.11	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
DUP	10/28/03	0.500 M	1.18	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	11/01/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	02/01/05	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - TPH BTEX**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethylbenzene ( $\mu\text{g/L}$ )	Xylene (total) ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Gasoline ( $\mu\text{g/L}$ )	Diesel ( $\mu\text{g/L}$ )	Heavy Oil ( $\mu\text{g/L}$ )
MW-8	02/01/02	<b>10.8</b>	<b>10</b>	<b>22.3</b>	<b>8.31</b>	<b>4.92</b>	<b>2,350</b>	NA	NA
	04/25/02	<b>2.85</b>	<b>4.45</b>	<b>13.4</b>	<b>4.52</b>	<b>7.64</b>	<b>1,190</b>	250 U	500 U
	07/29/02	<b>10.2</b>	<b>4.02</b>	<b>27.8</b>	<b>14.8</b>	<b>41.0</b>	<b>1,900</b>	<b>3,340</b>	500 M
	10/30/02	<b>1.88</b>	<b>0.691</b>	<b>3.89</b>	<b>9.86</b>	<b>0.772</b>	<b>764</b>	<b>1,170</b>	500 M
	01/29/03	<b>15.8</b>	<b>4.80</b>	<b>27.6</b>	<b>8.76</b>	<b>5.89</b>	<b>2,340</b>	<b>3,390</b>	500 M
	04/30/03	<b>11.8</b>	<b>2.11</b>	<b>30.1</b>	<b>10.4</b>	<b>23.1</b>	<b>1,810</b>	<b>2,250</b>	500 M
	07/29/03	<b>8.38</b>	<b>2.50</b>	<b>5.23</b>	<b>5.80</b>	NA	<b>887</b>	<b>961</b>	500 M
	10/28/03	<b>0.927</b>	<b>1.97</b>	<b>1.25</b>	<b>4.18</b>	NA	<b>623</b>	<b>571</b>	500 M
	01/30/04	<b>8.34</b>	<b>1.73</b>	<b>29.0</b>	<b>19.4</b>	NA	<b>1,920</b>	<b>1,810</b>	500 M
	04/29/04	<b>2.69</b>	0.500 M	<b>1.62</b>	1.00 M	NA	<b>618</b>	<b>1,020</b>	500 M
	07/26/04	<b>3.24</b>	<b>1.73</b>	<b>1.09</b>	<b>2.45</b>	NA	<b>376</b>	<b>1,300</b>	500 M
	11/01/04	<b>1.30</b>	0.500 M	<b>2.45</b>	1.00 M	NA	<b>391</b>	<b>422</b>	500 M
	02/02/05	0.500 M	<b>0.637</b>	<b>0.790</b>	1.00 M	NA	<b>317</b>	<b>693</b>	500 M
MW-9	02/01/02	<b>357</b>	<b>4.48</b>	2.50 M	5.00 M	10.0 U	<b>1,730</b>	NA	NA
	04/25/02	<b>312</b>	<b>6.84</b>	<b>5.47</b>	<b>9.44</b>	10.0 U	<b>1,360</b>	250 U	500 U
	07/29/02	<b>727</b>	<b>7.44</b>	<b>6.54</b>	<b>12.2</b>	1.00 M	<b>2,850</b>	250 M	500 M
	10/30/02	<b>511</b>	<b>11.4</b>	<b>6.14</b>	10.0 M	1.00 M	<b>1,420</b>	<b>486</b>	500 M
	01/29/03	<b>193</b>	<b>2.66</b>	2.50 M	5.00 M	0.500 M	<b>1,390</b>	<b>402</b>	500 M
	04/30/03	<b>663</b>	<b>9.36</b>	<b>11.6</b>	<b>11.1</b>	2.30 M	<b>3,440</b>	250 M	500 M
	07/30/03	<b>519</b>	<b>10.8</b>	<b>8.51</b>	<b>17.3</b>	NA	<b>2,060</b>	<b>457</b>	500 M
	10/29/03	<b>32.6</b>	<b>0.576</b>	<b>4.94</b>	1.00 M	NA	<b>1,790</b>	<b>680</b>	500 M
	01/30/04	<b>49.0</b>	<b>7.30</b>	<b>6.52</b>	<b>11.8</b>	NA	<b>1,970</b>	<b>693</b>	500 M
	04/29/04	<b>792</b>	<b>13.8</b>	<b>16.9</b>	<b>17.6</b>	NA	<b>3,100</b>	<b>903</b>	500 M
	07/26/04	<b>850</b>	<b>13.8</b>	<b>7.77</b>	<b>18.3</b>	NA	<b>3,800</b>	<b>1,600</b>	<b>601</b>
	11/01/04	<b>423</b>	<b>8.08</b>	2.50 M	<b>8.36</b>	NA	<b>1,870</b>	<b>471</b>	500 M
	02/02/05	<b>502</b>	<b>9.58</b>	<b>2.01</b>	<b>12.2</b>	NA	<b>2,660</b>	<b>1,440</b>	500 M
MW-10	02/01/02	<b>15.5</b>	<b>7.7</b>	<b>6.97</b>	<b>5.89</b>	10.0 M	<b>3,590</b>	NA	NA
DUP	02/01/02	<b>18</b>	<b>8.7</b>	<b>7.83</b>	<b>6.7</b>	10.0 U	<b>4,010</b>	NA	NA
	04/25/02	<b>16.7</b>	<b>8.48</b>	<b>7.65</b>	<b>9.13</b>	4.00 U	<b>4,470</b>	<b>3,850</b>	500 U
	11/27/02*	<b>3.17</b>	<b>2.41</b>	1.00 U	<b>2.49</b>	2.00 U	<b>3,630</b>	<b>15,200</b>	500 U
	04/30/03	<b>15.4</b>	<b>9.14</b>	<b>6.63</b>	5.00 M	100 M	<b>3,630</b>	<b>483,000</b>	5,000 M
	07/30/03	<b>9.23</b>	<b>6.60</b>	<b>5.95</b>	<b>8.52</b>	NA	<b>3,320</b>	<b>99,100</b>	10,000 M
	10/29/03	<b>10.6</b>	<b>5.88</b>	<b>4.94</b>	<b>7.06</b>	NA	<b>4,120</b>	<b>146,000</b>	2,500 M
MW-12	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	<b>1,320</b>	NA	NA
	04/25/02	1.00 U	1.00 U	1.00 U	2.00 U	4.00 U	<b>1,970</b>	<b>4,030</b>	500 U
	07/29/02	<b>0.721</b>	<b>0.526</b>	0.500 M	<b>5.60</b>	2.50 M	<b>1,110</b>	<b>11,100</b>	500 M
DUP	07/29/02	<b>0.729</b>	<b>0.534</b>	0.500 M	<b>5.68</b>	5.00 M	<b>1,140</b>	<b>5,180</b>	500 U
	10/29/02	1.00 M	<b>6.61</b>	<b>13.6</b>	<b>3.11</b>	2.50 M	<b>3,630</b>	<b>5,540</b>	500 M
	01/28/03	0.500 M	<b>0.534</b>	0.500 M	1.00 M	3.00 M	<b>1,250</b>	<b>110,000</b>	10000 M
	04/29/03	0.500 M	<b>0.547</b>	0.500 M	<b>2.55</b>	1.50 M	<b>740</b>	<b>14,500</b>	500 M
	07/29/03	<b>0.940</b>	<b>0.717</b>	<b>1.50</b>	<b>3.57</b>	NA	<b>832</b>	<b>2,000</b>	500 M
	10/28/03	<b>0.933</b>	<b>1.51</b>	<b>1.31</b>	<b>2.65</b>	NA	<b>1,110</b>	<b>25,300</b>	500 M
	01/29/04	<b>2.05</b>	0.500 M	<b>1.17</b>	<b>6.78</b>	NA	<b>835</b>	<b>12,700</b>	500 M
	04/29/04	0.500 M	0.500 M	<b>0.839</b>	<b>1.79</b>	NA	<b>669</b>	<b>8,030</b>	500 M
	07/26/04	<b>1.17</b>	<b>1.03</b>	<b>2.69</b>	<b>9.47</b>	NA	<b>1,720</b>	<b>12,500</b>	500 M
	11/01/04	0.500 M	<b>4.80</b>	<b>1.03</b>	<b>4.53</b>	NA	<b>1,330</b>	<b>37,200</b>	2,500 M
	02/02/05	<b>1.29</b>	<b>0.536</b>	<b>1.39</b>	<b>5.96</b>	NA	<b>1,480</b>	<b>27,700</b>	500 M

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - TPH BTEX**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethyl-benzene ( $\mu\text{g/L}$ )	Xylene (total) ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Gasoline ( $\mu\text{g/L}$ )	Diesel ( $\mu\text{g/L}$ )	Heavy Oil ( $\mu\text{g/L}$ )
MW-13	01/31/02	<b>109</b>	<b>6.74</b>	<b>8.9</b>	5.00 M	10.0 U	<b>6,150</b>	NA	NA
DUP	01/31/02	<b>102</b>	<b>6.86</b>	<b>8.7</b>	5.00 M	10.0 U	<b>6,110</b>	NA	NA
	04/25/02	<b>48.5</b>	<b>7.56</b>	<b>9.14</b>	5.00 U	10.0 U	<b>5,700</b>	250 U	500 U
DUP	04/25/02	<b>51.8</b>	<b>8.62</b>	<b>8.76</b>	5.00 U	10.0 U	<b>5,720</b>	250 U	500 U
	07/29/02	<b>2.63</b>	<b>1.6</b>	<b>2.88</b>	<b>7.76</b>	0.100 M	<b>3,330</b>	<b>2,690</b>	500 M
	10/29/02	<b>4.68</b>	<b>3.35</b>	<b>2.38</b>	<b>6.37</b>	4.00 M	<b>2,320</b>	<b>2,180</b>	<b>762</b>
DUP	10/29/02	<b>5.82</b>	<b>3.10</b>	<b>2.45</b>	<b>5.89</b>	3.00 M	<b>2,350</b>	<b>2,020</b>	<b>1,000</b>
	01/28/03	<b>2.71</b>	<b>3.22</b>	<b>2.56</b>	<b>6.52</b>	1.20 M	<b>2,220</b>	<b>2,230</b>	500 M
DUP	01/28/03	<b>2.35</b>	<b>3.05</b>	<b>2.51</b>	<b>6.26</b>	1.30 M	<b>2,480</b>	<b>1,880</b>	500 M
	04/29/03	<b>107</b>	<b>3.56</b>	<b>5.72</b>	5.00 M	2.50 M	<b>6,160</b>	833 M	1670 M
	07/29/03	<b>3.23</b>	<b>2.48</b>	<b>1.84</b>	<b>4.91</b>	NA	<b>2,130</b>	<b>546</b>	500 M
	10/28/03	<b>2.18</b>	<b>3.90</b>	<b>1.50</b>	<b>4.43</b>	NA	<b>2,210</b>	<b>1,780</b>	500 M
	01/29/04	<b>16.8</b>	<b>1.32</b>	<b>4.19</b>	<b>7.76</b>	NA	<b>3,390</b>	<b>3,240</b>	500 M
	04/28/04	<b>1.86</b>	<b>1.84</b>	<b>1.11</b>	<b>3.68</b>	NA	<b>2,570</b>	<b>1,940</b>	500 M
	07/26/04	<b>1.21</b>	<b>0.768</b>	<b>1.97</b>	<b>5.05</b>	NA	<b>1,580</b>	<b>2,020</b>	<b>825</b>
DUP	07/26/04	<b>2.52</b>	<b>1.72</b>	<b>2.10</b>	<b>6.35</b>	NA	<b>2,010</b>	<b>2,000</b>	<b>899</b>
	11/01/04	<b>2.71</b>	0.500 M	<b>1.62</b>	1.00 M	NA	<b>1,910</b>	<b>507</b>	500 M
	02/01/05	<b>1.77</b>	<b>0.953</b>	<b>1.27</b>	<b>4.49</b>	NA	<b>1,380</b>	<b>2,640</b>	500 M
DUP	02/01/05	<b>1.75</b>	<b>1.09</b>	<b>1.37</b>	<b>2.47</b>	NA	<b>1,550</b>	<b>2,370</b>	500 M
MW-14	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 M	250 U	500 U
	07/30/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	305 M	610 M
	10/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	<b>160</b>	250 M	500 M
	07/29/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	10/28/03	0.500 M	<b>0.792</b>	0.500 M	1.00 M	NA	80.0 M	287 M	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	11/01/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	02/01/05	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
MW-15	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	250 U	500 U
	07/30/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	250 M	500 M
	10/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	<b>0.137</b>	80.0 M	250 M	500 M
DUP	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	07/29/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
DUP	07/29/03	0.500 M	<b>0.785</b>	0.500 M	<b>1.48</b>	NA	80.0 M	250 M	500 M
	10/28/03	0.500 M	<b>1.01</b>	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	286M	571M
	11/01/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250	500 M
	02/01/05	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M

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Sample ID	Sample Date	Benzene ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethylbenzene ( $\mu\text{g/L}$ )	Xylene (total) ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Gasoline ( $\mu\text{g/L}$ )	Diesel ( $\mu\text{g/L}$ )	Heavy Oil ( $\mu\text{g/L}$ )
MW-16	02/01/02	<b>49.1</b>	<b>12.6</b>	<b>4.42</b>	<b>7.61</b>	10.0 M	<b>3,620</b>	NA	NA
	04/25/02	<b>46</b>	<b>14</b>	2.50 U	<b>8.73</b>	10.0 U	<b>3,570</b>	<b>4,040</b>	<b>1,050</b>
	07/30/02	<b>83.6</b>	<b>14.0</b>	<b>2.73</b>	<b>11.0</b>	2.50 M	<b>1,920</b>	<b>4,740</b>	1000 M
DUP	07/30/02	<b>79.3</b>	<b>14.4</b>	<b>3.31</b>	<b>13.0</b>	2.50 M	<b>1,950</b>	<b>6,240</b>	<b>2,060</b>
	11/27/02*	<b>79.9</b>	<b>11.3</b>	1.00 U	<b>3.84</b>	2.00 U	<b>2,000</b>	<b>2,660</b>	<b>1,160</b>
DUP	01/28/03	<b>40.5</b>	<b>13.4</b>	<b>4.35</b>	<b>10.6</b>	1.80 M	<b>2,930</b>	<b>30,400</b>	<b>17,600</b>
	04/29/03	<b>34.2</b>	<b>10.3</b>	<b>2.50</b>	<b>10.9</b>	2.20 M	<b>3,500</b>	<b>35,100</b>	<b>13,100</b>
	07/29/03	<b>43.7</b>	<b>13.0</b>	<b>3.06</b>	<b>8.68</b>	2.00 M	<b>2,300</b>	<b>12,900</b>	<b>5,160</b>
	10/28/03	<b>65.7</b>	<b>10.1</b>	<b>2.91</b>	<b>6.98</b>	NA	<b>1,420</b>	<b>11,100</b>	<b>5,870</b>
	04/28/04	<b>77.9</b>	<b>12.8</b>	<b>2.16</b>	<b>7.95</b>	NA	<b>1,910</b>	<b>7,520</b>	<b>3,440</b>
DUP	07/26/04	<b>26.5</b>	<b>8.74</b>	<b>1.28</b>	<b>5.73</b>	NA	<b>1,860</b>	<b>74,200</b>	<b>37,600</b>
	11/01/04	<b>26.7</b>	<b>8.94</b>	<b>1.40</b>	<b>5.88</b>	NA	<b>1,780</b>	<b>50,200</b>	<b>21,700</b>
	02/01/05	<b>107</b>	<b>16.2</b>	<b>5.19</b>	<b>14.6</b>	NA	<b>2,890</b>	<b>28,100</b>	<b>15,400</b>
	07/26/04	<b>39.1</b>	<b>11.1</b>	<b>3.51</b>	<b>9.36</b>	NA	<b>2,440</b>	<b>15,100</b>	<b>8,500</b>
MW-17	01/31/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	<b>93.8</b>	NA	NA
	04/24/02	0.500 U	0.500 U	0.500 U	1.00 M	2.00 M	<b>126</b>	<b>360</b>	500 U
	07/30/02	0.500 M	0.500 M	<b>0.702</b>	<b>2.72</b>	1.00 M	<b>199</b>	<b>352</b>	500 M
	10/30/02	0.500 M	0.500 M	0.500 M	1.00 M	1.00 M	80.0 M	250 M	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
DUP	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.300 M	<b>118</b>	<b>256</b>	500 M
	07/29/03	0.500 M	<b>0.749</b>	0.500 M	1.00 M	NA	<b>109</b>	<b>553</b>	500 M
DUP	07/29/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	<b>452</b>	500 M
	10/28/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	<b>324</b>	500 M
	01/29/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	<b>423</b>	500 M
	11/01/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	<b>272</b>	500 M
	02/01/05	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
MW-18	04/25/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	250 U	500 U
DUP	04/25/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 M	250 U	500 U
	07/29/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	50.0 M	250 M	500 M
	10/30/02	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	01/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	04/29/03	0.500 M	0.500 M	0.500 M	1.00 M	0.100 M	80.0 M	250 M	500 M
	07/30/03	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	10/29/03	0.500 M	<b>2.02</b>	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	01/30/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	04/28/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	07/26/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	11/01/04	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M
	02/01/05	0.500 M	0.500 M	0.500 M	1.00 M	NA	80.0 M	250 M	500 M

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - TPH BTEX**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylene (total) (µg/L)	Naphthalene (µg/L)	Gasoline (µg/L)	Diesel (µg/L)	Heavy Oil (µg/L)
MW-20	05/01/03	<b>36.5</b>	<b>7.12</b>	<b>5.15</b>	<b>7.20</b>	5.00 M	<b>3,460</b>	<b>5,850</b>	500 M
	07/30/03	<b>45.7</b>	<b>7.59</b>	<b>8.15</b>	<b>8.07</b>	NA	<b>2,680</b>	<b>7,200</b>	500 M
MW-21	05/01/03	<b>3.15</b>	<b>4.92</b>	<b>2.92</b>	<b>3.51</b>	3.00 M	<b>2,260</b>	<b>6,040</b>	500 M
	07/30/03	<b>4.15</b>	<b>5.45</b>	<b>4.08</b>	<b>10.8</b>	NA	<b>3,730</b>	<b>4,830</b>	500 M
MW-22	05/01/03	<b>11.7</b>	<b>3.54</b>	<b>2.43</b>	<b>4.52</b>	1.70 M	<b>1,330</b>	<b>2,570</b>	500 M
	07/30/03	<b>10.4</b>	<b>7.04</b>	<b>1.67</b>	<b>7.30</b>	NA	<b>1,080</b>	<b>2,650</b>	500 M
	10/29/03	0.500 M	<b>1.18</b>	0.500 M	1.00 M	NA	<b>138</b>	<b>1,330</b>	500 M
	01/30/04	<b>6.88</b>	<b>0.950</b>	<b>3.03</b>	<b>12.3</b>	NA	<b>2,550</b>	<b>2,130</b>	500 M
	04/29/04	<b>13.7</b>	<b>3.56</b>	<b>1.81</b>	<b>4.68</b>	NA	<b>1,670</b>	<b>3,470</b>	<b>510</b>
	07/26/04	<b>0.817</b>	<b>5.20</b>	<b>1.59</b>	<b>5.75</b>	NA	<b>1,210</b>	<b>3,340</b>	<b>776</b>
	11/01/04	<b>0.956</b>	0.500 M	<b>0.938</b>	1.00 M	NA	<b>715</b>	<b>2,430</b>	<b>512</b>
	02/02/05	<b>2.23</b>	<b>1.72</b>	<b>2.18</b>	<b>8.02</b>	NA	<b>1,440</b>	<b>2,950</b>	<b>629</b>
	07/26/04	<b>0.844</b>	<b>2.96</b>	<b>3.25</b>	<b>9.65</b>	NA	<b>1,750</b>	<b>11,400</b>	<b>687</b>
	11/01/04	<b>1.34</b>	<b>2.07</b>	<b>2.84</b>	<b>8.28</b>	NA	<b>1,670</b>	<b>17,600</b>	<b>8,780</b>
DUP	11/01/04	<b>1.28</b>	<b>2.16</b>	<b>3.06</b>	<b>9.78</b>	NA	<b>1,930</b>	<b>4,770</b>	<b>2,600</b>
MW-24	07/26/04	<b>0.976</b>	<b>1.19</b>	<b>2.40</b>	<b>10.0</b>	NA	<b>1,850</b>	<b>14,400</b>	<b>13,100</b>
	11/01/04	0.500 M	<b>1.97</b>	<b>0.827</b>	<b>3.35</b>	NA	<b>1,190</b>	<b>11,000</b>	<b>9,640</b>
	02/02/05	0.500 M	0.500 M	0.500 M	1.00 M	NA	<b>317</b>	<b>6,720</b>	<b>7,930</b>
	RW-1	11/26/02*	<b>7.68</b>	2.00 U	<b>16.1</b>	<b>15.5</b>	<b>145</b>	<b>3,930</b>	<b>998,000</b>
RW-2	11/26/02*	<b>30.3</b>	1.00 U	<b>21.0</b>	<b>16.7</b>	<b>46.7</b>	<b>1,690</b>	<b>243,000</b>	<b>57,700</b>
	RW-3	11/26/02*	<b>3.80</b>	1.00 U	<b>7.51</b>	3.00 U	<b>9.04</b>	<b>1,430</b>	<b>678,000</b>
Trip Blank	04/24/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	04/25/02	0.500 U	0.500 U	0.500 U	1.00 U	2.00 U	80.0 U	NA	NA
	07/29/02	0.500 M	0.500 M	0.500 M	1.00 M	NA	50.0 M	NA	NA
	10/29/02	0.500 M	0.500 M	0.500 M	1.00 M	NA	NA	NA	NA

**NOTES:**

Gasoline Range Hydrocarbons analyzed by NW TPH-Gx Method

Diesel and Heavy Oil Range Hydrocarbons analyzed by NW TPH-DX Method

Benzene, Toluene, Ethylbenzene, Xylene, and Naphthalene (BTEX/N) analyzed by USEPA Method 8021B or 8260B

µg/l = micrograms per liter

Lab reported Diesel and Heavy Oil in mg/l

NA = Not Analyzed

J = Estimated Value

U = Analyte included in the analysis but not detected above laboratory method detection limits (MDLs)

M = Analyte included in the analysis but not detected above laboratory method reporting limits (MRLs)

**Bold Face Font** = Analyte detected above the MRLs

\* = Additional RI Sampling

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
 Kinder Morgan Liquid Terminals LLC  
 Linton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Acenaphthene ( $\mu\text{g/L}$ )	Acenaphthylene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benz(a)anthracene ( $\mu\text{g/L}$ )	Benz(a)pyrene ( $\mu\text{g/L}$ )	Benz(b)fluoranthene ( $\mu\text{g/L}$ )	Benz(ghi)perylene ( $\mu\text{g/L}$ )	Benz(k)fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenz(a,h)anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno(1,2,3-cd)pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Phenanthrene ( $\mu\text{g/L}$ )	Pyrene ( $\mu\text{g/L}$ )
MW-1	02/01/02	5.00 U	2.50 U	<b>2.74</b>	0.500 U	0.500 U	0.500 U	0.500 U	0.500 M	1.00 U	0.500 U	<b>20.9</b>	0.500 U	12.5 U	13.3	2.23	
	11/26/2002*	<b>2.26</b>	0.500 U	<b>1.98</b>	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	<b>13.9</b>	0.500 U	5.00 U	<b>11.0</b>	<b>1.48</b>	
	01/29/03	10.0 M	5.00 M	<b>10.8</b>	<b>0.284</b>	<b>0.394</b>	<b>0.322</b>	0.200 M	<b>0.266</b>	<b>1.46</b>	0.400 M	5.00 M	<b>60.6</b>	0.200 M	20.0 M	<b>54.7</b>	<b>6.88</b>
	04/30/03	<b>2.74</b>	1.00 M	<b>2.48</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>16.5</b>	1.00 M	2.00 M	<b>12.7</b>	<b>2.00</b>
MW-2	11/26/2002*	<b>4.44</b>	1.00 U	<b>2.72</b>	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	2.00 U	<b>1.16</b>	<b>14.8</b>	1.00 U	<b>21.1</b>	<b>15.4</b>	<b>2.24</b>
MW-3	11/26/2002*	10.0 U	10.0 U	<b>3.89</b>	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	33.0 U	0.500 U	10.0 U	<b>22.1</b>	<b>2.98</b>	
MW-4	02/01/02	0.500 U	0.100 U	<b>0.257</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	<b>2.32</b>	0.100 U	1.00 U	<b>0.725</b>	<b>0.17</b>
	04/25/02	0.500 U	0.100 U	<b>0.388</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	<b>2.21</b>	0.100 U	0.500 U	<b>0.618</b>	<b>0.182</b>
	07/29/02	<b>0.405</b>	0.100 M	0.500 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>1.78</b>	0.100 M	0.500 M	0.500 M	<b>0.313</b>
	10/30/02	2.50 M	0.500 M	<b>4.26</b>	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	8.00 M	0.500 M	3.50 M	<b>7.64</b>	<b>3.09</b>	
DUP	10/30/02	1.50 M	0.500 M	<b>2.18</b>	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	<b>4.36</b>	0.500 M	2.00 M	<b>3.60</b>	<b>1.61</b>	
	01/29/03	0.800 M	0.400 M	<b>0.860</b>	0.400 M	0.400 M	0.400 M	0.400 M	0.400 M	0.400 M	0.800 M	0.400 M	<b>2.97</b>	0.400 M	1.20 M	<b>2.23</b>	<b>0.600</b>
	04/30/03	2.50 M	2.50 M	2.50 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	2.50 M	<b>4.88</b>	0.100 M	2.50 M	<b>2.74</b>	<b>0.774</b>
	07/29/03	1.00 M	0.750 M	<b>1.79</b>	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	<b>5.12</b>	0.500 M	3.25	<b>4.40</b>	<b>1.35</b>	
	10/28/03	3.00 M	2.00 M	4.00 M	2.00 M	2.00 M	2.00 M	2.00 M	2.00 M	2.00 M	4.00 M	2.00 M	11.0 M	2.00 M	3.00 M	<b>8.85</b>	<b>4.00</b>
	01/30/04	3.00 M	2.50 M	<b>5.80</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	11.5 M	1.00 M	4.50 M	<b>10.3</b>	<b>4.41</b>
	04/29/04	1.00 M	0.750 M	1.75 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	<b>4.04</b>	0.500 M	2.25 M	2.50 M	<b>1.32</b>	
	07/26/04	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>1.74</b>	1.00 M	1.50 M	1.00 M	1.00 M
	11/01/04	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>1.46</b>	1.00 M	1.00 M	<b>1.11</b>	<b>1.00 M</b>
	2/2/2005**	5.00 M	5.00 M	22.5 M	5.00 M	5.00 M	5.00 M	5.00 M	5.00 M	10.0 M	5.00 M	<b>18.8</b>	5.00 M	5.00 M	20.0 M	<b>8.18</b>	
	3/25/2005***	1.50 M	1.00 M	1.50 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	4.00 M	1.00 M	1.50 M	<b>4.63</b>	<b>1.26</b>	
MW-5	02/01/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	04/24/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	01/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/30/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.150 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.150 M	0.100 M	
MW-6	02/01/02	<b>0.153</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	<b>0.131</b>	0.100 U	5.00 U	<b>0.226</b>	0.100 U
	04/24/02	<b>0.161</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	<b>0.101</b>	0.100 U	2.00 U	<b>0.214</b>	0.100 U
	01/29/03	<b>0.129</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	2.00 M	<b>0.128</b>	0.100 M
	04/29/03	<b>0.107</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	1.70 M	<b>0.110</b>	0.100 M
	01/29/04	<b>0.115</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>0.140</b>	0.100 M	1.95 M	<b>0.146</b>	0.100 M
DUP	01/29/04	<b>0.115</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>0.150</b>	0.100 M	1.35 M	<b>0.130</b>	0.100 M
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>0.104</b>	0.100 M	1.35 M	<b>0.110</b>	0.100 M

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
 Kinder Morgan Liquid Terminals LLC  
 Linton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Acenaphthene ( $\mu\text{g/L}$ )	Acenaphthylene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benz(a)anthracene ( $\mu\text{g/L}$ )	Benz(a)pyrene ( $\mu\text{g/L}$ )	Benz(b)fluoranthene ( $\mu\text{g/L}$ )	Benz(g,h,i)perylene ( $\mu\text{g/L}$ )	Benz(k)fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenz(a,h)anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno(1,2,3-cd)pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Phenanthrene ( $\mu\text{g/L}$ )	
MW-7	01/31/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	04/24/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	07/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.250 M	0.100 M	0.100 M	
	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
DUP	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/26/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	11/01/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	2/1/2005**	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
MW-8	02/01/02	<b>18.9</b>	2.00 U	<b>0.769</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	<b>1.03</b>	<b>12.4</b>	0.100 U	<b>2.56</b>	<b>11.2</b>	<b>1.19</b>	
	04/25/02	<b>40.6</b>	0.500 M	<b>0.806</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 U	<b>1.69</b>	<b>18.6</b>	0.100 U	<b>8.36</b>	<b>7.73</b>	<b>1.72</b>	
	07/29/02	<b>67.1</b>	0.100 M	<b>0.629</b>	<b>0.117</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>1.36</b>	<b>22.3</b>	0.100 M	<b>41.0</b>	<b>7.78</b>	<b>2.34</b>	
	10/30/02	<b>90.3</b>	1.00 M	<b>1.31</b>	<b>0.568</b>	<b>0.723</b>	<b>0.529</b>	<b>0.675</b>	0.500 M	<b>0.733</b>	<b>1.00 M</b>	<b>2.65</b>	<b>43.4</b>	0.500 M	<b>0.772</b>	<b>9.42</b>	<b>3.34</b>
	01/29/03	<b>18.9</b>	1.00 M	<b>0.429</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.697</b>	<b>9.84</b>	0.100 M	<b>6.89</b>	<b>4.72</b>	<b>0.788</b>	
	04/30/03	<b>27.1</b>	5.00 M	<b>0.780</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.884</b>	<b>13.4</b>	0.100 M	<b>23.1</b>	<b>4.21</b>	<b>1.30</b>	
	07/29/03	<b>70.6</b>	<b>0.303</b>	<b>0.688</b>	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.208	0.400 M	<b>1.32</b>	<b>33.8</b>	0.200 M	<b>2.94</b>	<b>10.0</b>	<b>1.73</b>
	10/28/03	<b>51.7</b>	0.250 M	<b>0.527</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.917</b>	<b>26.7</b>	0.100 M	<b>0.322</b>	<b>4.84</b>	<b>1.17</b>	
	01/30/04	<b>32.1</b>	0.400 M	<b>0.618</b>	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	<b>0.400 M</b>	<b>0.777</b>	<b>13.3</b>	0.200 M	<b>10.5</b>	<b>6.37</b>	<b>0.879</b>
	04/29/04	<b>58.5</b>	0.300 M	<b>0.743</b>	<b>0.167</b>	<b>0.138</b>	<b>0.124</b>	<b>0.183</b>	<b>0.119</b>	<b>0.224</b>	0.200 M	<b>1.43</b>	<b>25.9</b>	<b>0.128</b>	2.00 M	<b>12.5</b>	<b>1.54</b>
	07/26/04	<b>51.4</b>	1.00 M	<b>1.00 M</b>	<b>1.00 M</b>	<b>1.00 M</b>	<b>1.00 M</b>	<b>1.00 M</b>	<b>1.00 M</b>	<b>2.00 M</b>	<b>1.08</b>	<b>26.8</b>	1.00 M	<b>1.00 M</b>	<b>3.67</b>	<b>1.09</b>	
	11/01/04	<b>99.6</b>	2.50 M	<b>1.15</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.716</b>	<b>50.6</b>	0.100 M	2.50 M	<b>8.63</b>	<b>0.871</b>	
	2/2/2005**	<b>83.9</b>	2.00 M	<b>1.86</b>	<b>0.105</b>	<b>0.141</b>	<b>0.117</b>	<b>0.145</b>	<b>0.0901</b>	<b>0.138</b>	0.200 M	<b>1.17</b>	<b>49.6</b>	<b>0.104</b>	0.550 M	<b>21.6</b>	<b>1.36</b>
	3/25/05***	<b>84.6</b>	1.00 M	<b>1.66</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	<b>1.26</b>	<b>55.3</b>	1.00 M	1.00 M	<b>20.7</b>	<b>1.43</b>

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
 Kinder Morgan Liquid Terminals LLC  
 Linton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Acenaphthene ( $\mu\text{g/L}$ )	Acenaphthylene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benz(a)anthracene ( $\mu\text{g/L}$ )	Benz(a)pyrene ( $\mu\text{g/L}$ )	Benz(b)fluoranthene ( $\mu\text{g/L}$ )	Benz(g,h)perylene ( $\mu\text{g/L}$ )	Benz(k)fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenz(a,h)anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno(1,2,3-c)pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Phenanthrene ( $\mu\text{g/L}$ )	
MW-9	02/01/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.500 U	0.100 U	0.100 M	
	04/25/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	1.00 U	0.100 U	0.100 U	
	07/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	
	10/30/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.500 M	0.100 M	0.100 M	
	04/30/03	<b>0.112</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	2.30 M	0.100 M	0.100 M	
	07/30/03	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	0.200 M	0.200 M	2.00 M	0.200 M	0.200 M	
	10/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.550 M	0.100 M	0.100 M	
	01/30/04	<b>0.116</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	1.65 M	0.100 M	0.100 M	
	04/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	1.60 M	0.100 M	0.100 M	
	07/26/04	<b>0.114</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	3.50 M	0.100 M	0.100 M	
	11/01/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	1.30 M	0.100 M	0.100 M	
	2/2/2005**	<b>0.136</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	1.50 M	0.100 M	0.100 M	
MW-10	02/01/02	<b>7.81</b>	0.100 U	<b>0.304</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	<b>0.447</b>	<b>5.21</b>	0.100 U	5.00 U	<b>1.41</b>	<b>0.512</b>	
DUP	02/01/02	<b>6.8</b>	0.500 U	<b>0.228</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	<b>0.387</b>	<b>4.19</b>	0.100 U	5.00 U	<b>0.557</b>	<b>0.451</b>	
	04/25/02	<b>4.39</b>	0.100 U	<b>0.367</b>	<b>0.123</b>	<b>0.108</b>	0.100 M	0.100 M	0.100 M	0.200 U	<b>0.784</b>	<b>3.21</b>	0.100 M	2.50 U	<b>0.903</b>	<b>0.933</b>	
	11/27/02*	<b>10.8</b>	0.500 U	<b>1.56</b>	0.500 U	<b>0.678</b>	0.500 U	<b>0.695</b>	0.500 U	<b>0.605</b>	1.00 U	<b>1.77</b>	<b>10.7</b>	0.500 U	<b>17.0</b> U	<b>9.62</b>	<b>2.20</b>
	04/30/03	<b>150</b>	100 M	<b>23.1</b>	<b>12.0</b>	<b>10.8</b>	<b>6.80</b>	<b>5.00</b>	<b>7.08</b>	<b>14.8</b>	2.00 M	<b>73.8</b>	<b>163</b>	<b>4.00</b>	100 M	<b>176</b>	<b>76.1</b>
	07/30/03	<b>29.4</b>	6.00 M	<b>6.16</b>	<b>3.40</b>	<b>4.07</b>	<b>3.09</b>	<b>3.24</b>	2.00 M	<b>4.16</b>	4.00 M	<b>10.5</b>	<b>25.5</b>	<b>2.18</b>	32.0 M	<b>22.9</b>	<b>18.8</b>
	10/29/03	<b>19.8</b>	3.50 M	<b>4.02</b>	<b>2.17</b>	<b>2.12</b>	<b>1.44</b>	<b>1.35</b>	<b>1.22</b>	<b>2.92</b>	2.00 M	<b>9.99</b>	<b>19.6</b>	1.00 M	12.5 M	<b>20.6</b>	<b>14.3</b>
MW-12	01/31/02	<b>2.05</b>	0.500 U	<b>0.212</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	<b>4.34</b>	0.100 U	2.50 U	<b>4.11</b>	0.100 M	
	04/25/02	<b>1.52</b>	0.100 U	<b>0.349</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	<b>3.32</b>	0.100 U	1.00 U	<b>4.56</b>	0.143	
	07/29/02	5.00 M	0.500 M	<b>0.693</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.500 M	<b>5.33</b>	0.100 M	2.50 M	<b>7.29</b>	<b>0.260</b>	
DUP	07/29/02	<b>2.44</b>	0.500 M	<b>0.655</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>4.67</b>	0.100 M	5.00 M	<b>5.23</b>	<b>0.293</b>	
	10/29/02	<b>1.72</b>	0.100 M	<b>0.353</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.500 M	<b>3.89</b>	0.100 M	2.50 M	<b>5.97</b>	<b>0.123</b>	
	01/28/03	<b>3.33</b>	0.500 M	<b>1.01</b>	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	<b>6.96</b>	0.500 M	3.00 M	<b>10.5</b>	<b>0.566</b>	
	04/29/03	<b>4.00</b>	1.00 M	<b>1.18</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>9.45</b>	1.00 M	1.50 M	<b>10.9</b>	1.00 M	
	07/29/03	<b>2.23</b>	0.700 M	<b>0.254</b>	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	<b>4.77</b>	0.200 M	2.20 M	<b>5.09</b>	0.200 M	
	10/28/03	<b>5.28</b>	1.60 M	<b>2.20</b> M	0.400 M	0.400 M	0.400 M	0.400 M	0.400 M	0.800 M	<b>0.452</b>	<b>10.1</b>	0.400 M	3.80 M	<b>18.0</b>	<b>1.29</b>	
	01/29/04	<b>3.38</b>	1.50 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>7.12</b>	1.00 M	3.00 M	<b>7.44</b>	1.00 M	
	04/29/04	<b>1.98</b>	0.800 M	0.400 M	0.400 M	0.400 M	0.400 M	0.400 M	0.400 M	0.600 M	0.400 M	<b>4.05</b>	0.400 M	0.400 M	<b>4.44</b>	0.400 M	
	07/26/04	<b>3.11</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>6.40</b>	1.00 M	4.60 M	<b>5.93</b>	1.00 M	
	11/01/04	<b>3.40</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>7.54</b>	1.00 M	1.00 M	<b>9.25</b>	1.00 M	
	2/2/2005**	<b>3.28</b>	1.00 M	<b>0.627</b>	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.800 M	<b>6.21</b>	0.500 M	2.25 M	<b>8.20</b>	<b>0.364</b>		

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Aceanaphthalene ( $\mu\text{g/L}$ )	Aceanaphthylene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benz(a)anthracene ( $\mu\text{g/L}$ )	Benz(a)pyrene ( $\mu\text{g/L}$ )	Benz(b)fluoranthene ( $\mu\text{g/L}$ )	Benz(ghi)perylene ( $\mu\text{g/L}$ )	Benz(k)fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenz(a,h)anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno[1,2,3-cd]pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Pteranthene ( $\mu\text{g/L}$ )	Pyrene ( $\mu\text{g/L}$ )
MW-13	01/31/02	<b>1.82</b>	0.100 U	<b>0.16</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	<b>3.23</b>	0.100 U	5.00 U	<b>2.61</b>	0.100 M	
DUP	01/31/02	<b>1.47</b>	0.100 U	<b>0.144</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	<b>3.26</b>	0.100 U	2.00 U	<b>3.3</b>	0.100 M	
	04/25/02	<b>1.25</b>	0.100 U	<b>0.203</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	<b>2.75</b>	0.100 U	2.00 U	<b>2.63</b>	0.100 M	
DUP	04/25/02	<b>1.36</b>	0.100 U	<b>0.138</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	<b>2.73</b>	0.100 U	2.00 U	<b>2.74</b>	0.100 M	
	07/29/02	<b>0.658</b>	0.100 M	<b>0.172</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>1.90</b>	0.100 M	0.100 M	<b>3.81</b>	<b>0.157</b>	
	10/29/02	<b>1.31</b>	0.500 M	1.00 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	<b>2.75</b>	0.500 M	4.00 M	<b>4.91</b>	<b>0.515</b>	
DUP	10/29/02	<b>0.802</b>	0.100 M	0.250 M	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 M	<b>1.68</b>	0.100 M	3.00 M	<b>2.42</b>	<b>0.121</b>	
	01/28/03	<b>0.598</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>1.15</b>	0.100 M	1.20 M	<b>1.13</b>	0.100 M	
DUP	01/28/03	<b>0.710</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>1.40</b>	0.100 M	1.30 M	<b>1.11</b>	0.100 M	
	04/29/03	<b>2.89</b>	2.50 M	<b>0.223</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>5.67</b>	0.100 M	2.50 M	<b>2.94</b>	<b>0.120</b>	
	07/29/03	<b>0.806</b>	0.300 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	<b>1.69</b>	0.200 M	2.20 M	<b>2.86</b>	0.200 M	
	10/28/03	<b>0.843</b>	0.250 M	<b>0.112</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>1.69</b>	0.100 M	1.45 M	<b>2.42</b>	0.100 M	
	01/29/04	<b>1.86</b>	0.500 M	<b>0.238</b>	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	<b>3.88</b>	0.200 M	4.40 M	<b>6.12</b>	0.200 M	
	04/28/04	<b>0.891</b>	0.300 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>1.82</b>	0.100 M	4.00 M	<b>3.42</b>	0.100 M	
	07/26/04	<b>2.50 M</b>	2.50 M	<b>0.211</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>2.50</b>	0.100 M	4.25 M	<b>3.73</b>	0.100 M	
DUP	07/26/04	2.50 M	2.50 M	<b>0.181</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>2.50</b>	0.100 M	4.00 M	<b>3.48</b>	0.100 M	
	11/01/04	<b>0.850</b>	0.100 M	<b>0.152</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	<b>2.06</b>	0.100 M	2.50 M	<b>2.85</b>	<b>0.164</b>	
	2/1/2005**	<b>0.748</b>	0.300 M	<b>0.139</b>	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	<b>1.39</b>	0.200 M	1.50 M	<b>2.17</b>	<b>0.105</b>	
MW-14	01/31/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 M	0.100 M	
	04/24/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	07/30/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/26/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	11/01/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	2/1/2005**	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
 Kinder Morgan Liquid Terminals LLC  
 Linton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Azenaphthene ( $\mu\text{g/L}$ )	Azenaphtylene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benz(a)anthracene ( $\mu\text{g/L}$ )	Benz(a)pyrene ( $\mu\text{g/L}$ )	Benz(b)fluoranthene ( $\mu\text{g/L}$ )	Benz(ghi)perylene ( $\mu\text{g/L}$ )	Benz(k)fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenz(a,h)anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno(1,2,3-cd)pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Phenanthrene ( $\mu\text{g/L}$ )	Pyrrene ( $\mu\text{g/L}$ )
MW-15	01/31/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	04/24/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	07/30/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.137	0.100 M	0.100 M	
DUP	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
DUP	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/26/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	11/01/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	2/1/2005**	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
MW-16	02/01/02	1.4	0.200 U	0.200 M	0.200 M	0.200 M	0.200 M	0.200 U	0.200 M	0.400 U	0.368	2.87	0.200 U	4.00 U	1.71	0.342	
	04/25/02	1.16	0.100 U	0.258	0.255	0.218	0.208	0.168	0.183	0.273	0.200 U	0.642	2.84	0.138	1.50 U	2.49	0.626
	07/30/02	1.34	0.200 M	0.409	0.312	0.231	0.266	0.200 M	0.200 M	0.476	0.400 M	0.676	2.65	0.200 M	2.50 M	2.97	0.842
DUP	07/30/02	1.36	0.200 M	0.367	0.233	0.200 M	0.200 M	0.200 M	0.200 M	0.374	0.400 M	0.567	2.60	0.200 M	2.50 M	2.80	0.686
	11/27/02*	4.12	1.00 U	2.41	1.27	1.47	2.36	1.00 U	1.00 U	3.16	2.00 U	2.99	11.9	1.00 U	7.40 U	13.6	3.27
	01/28/03	1.24	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	0.200 M	2.37	0.200 M	1.80 M	1.74	0.235	
DUP	01/28/03	1.33	0.200 M	0.242	0.200 M	0.200 M	0.200 M	0.200 M	0.228	0.400 M	0.298	2.73	0.200 M	2.20 M	2.38	0.368	
	04/29/03	2.78	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	5.86	1.00 M	2.00 M	4.86	1.00 M	
	07/29/03	2.00	0.500 M	0.614	0.640	0.633	1.06	0.500 M	0.500 M	1.10	1.00 M	1.08	4.16	0.500 M	4.50 M	3.05	1.42
	10/28/03	1.53	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	3.05	0.500 M	1.75 M	2.17	0.500 M	
	04/28/04	1.47	1.00 M	1.00 M	2.00 M	1.00 M	2.50 M	1.00 M	2.50 M	2.00 M	2.00 M	3.22	1.00 M	4.00 M	2.17	1.00 M	
DUP	04/28/04	2.23	1.00 M	1.00 M	2.00 M	1.00 M	2.50 M	1.00 M	2.50 M	2.00 M	2.00 M	4.82	1.00 M	4.00 M	5.18	1.00 M	
	07/26/04	2.50 M	2.50 M	2.50 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	2.50 M	2.78	1.00 M	4.00 M	2.50 M	1.00 M	
	11/01/04	2.24	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	4.54	1.00 M	1.50 M	3.56	1.00 M	

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Acenaphthene ( $\mu\text{g/L}$ )	Acenaphthylene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benz(a)anthracene ( $\mu\text{g/L}$ )	Benz(a)pyrene ( $\mu\text{g/L}$ )	Benz(b)fluoranthene ( $\mu\text{g/L}$ )	Benz(g/h)perylene ( $\mu\text{g/L}$ )	Benz(k)fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenz(a,h)anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno(1,2,3-cd)pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Phenanthrene ( $\mu\text{g/L}$ )	Pyrene ( $\mu\text{g/L}$ )
MW-17	01/31/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	<b>0.214</b>	0.100 U	0.200 U	<b>0.301</b>	0.100 U	
	04/24/02	0.100 U	0.100 U	0.2100 M	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	<b>0.187</b>	0.100 U	
	07/30/02	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	
	10/30/02	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.300 M	0.100 M	0.100 M	
DUP	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.350 M	0.100 M	0.100 M	
	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.250 M	0.100 M	0.100 M	
DUP	07/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	
	10/28/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/26/04	0.100 M	0.100 M	0.100 M	1.00 M	0.100 M	0.100 M	0.100 M	0.100 M	1.00 M	0.200 M	0.100 M	0.100 M	0.200 M	0.100 M	1.00 M	
	11/01/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	2/1/2005**	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
MW-18	04/25/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
DUP	04/25/02	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.200 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	
	07/29/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/30/02	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	04/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/30/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	10/29/03	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	01/30/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	<b>0.261</b>	0.100 M	0.100 M	
	04/28/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	07/26/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	11/01/04	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	
	2/1/2005**	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	

**TABLE 3**  
**GROUNDWATER ANALYTICAL PAHs**  
 Kinder Morgan Liquid Terminals LLC  
 Linton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Acenaphthene ( $\mu\text{g/L}$ )	Acenaphthylene ( $\mu\text{g/L}$ )	Anthracene ( $\mu\text{g/L}$ )	Benz(a)anthracene ( $\mu\text{g/L}$ )	Benz(a)pyrene ( $\mu\text{g/L}$ )	Benz(b)fluoranthene ( $\mu\text{g/L}$ )	Benz(g/h)pyrene ( $\mu\text{g/L}$ )	Benz(k)fluoranthene ( $\mu\text{g/L}$ )	Chrysene ( $\mu\text{g/L}$ )	Dibenzo(a,h)anthracene ( $\mu\text{g/L}$ )	Fluoranthene ( $\mu\text{g/L}$ )	Fluorene ( $\mu\text{g/L}$ )	Indeno(1,2,3-cd)pyrene ( $\mu\text{g/L}$ )	Naphthalene ( $\mu\text{g/L}$ )	Phenanthrene ( $\mu\text{g/L}$ )	
MW-20	05/01/03	<b>11.7</b>	2.50 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.368</b>	<b>6.24</b>	0.100 M	5.00 M	<b>0.820</b>	<b>0.495</b>	
	07/30/03	<b>21.8</b>	1.00 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	<b>0.979</b>	<b>9.18</b>	0.500 M	8.00 M	<b>3.61</b>	<b>1.31</b>	
MW-21	05/01/03	<b>6.08</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	1.00 M	<b>6.13</b>	1.00 M	3.00 M	<b>2.69</b>	1.00 M	
	07/30/03	5.25 M	0.750 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	1.00 M	0.500 M	<b>4.59</b>	0.500 M	6.50 M	<b>2.23</b>	<b>0.704</b>	
MW-22	05/01/03	<b>2.67</b>	0.100 M	<b>0.158</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.726</b>	<b>1.15</b>	0.100 M	1.70 M	<b>0.146</b>	<b>1.09</b>	
	07/30/03	<b>6.14</b>	0.300 M	<b>0.362</b>	<b>0.223</b>	<b>0.219</b>	0.200 M	0.200 M	0.200 M	0.400 M	<b>1.68</b>	<b>1.70</b>	0.200 M	2.60 M	<b>2.22</b>	<b>2.31</b>	
	10/29/03	<b>0.286</b>	0.100 M	0.150 M	<b>0.123</b>	<b>0.138</b>	0.100 M	<b>0.125</b>	0.100 M	0.200 M	<b>0.835</b>	<b>0.110</b>	0.100 M	0.400 M	0.150 M	<b>1.19</b>	
	01/30/04	<b>1.90</b>	0.300 M	<b>0.276</b>	0.200 M	0.200 M	0.200 M	0.200 M	0.200 M	0.400 M	<b>0.936</b>	<b>1.78</b>	0.200 M	1.70 M	<b>1.25</b>	<b>1.28</b>	
	04/29/04	<b>4.73</b>	0.300 M	<b>0.332</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>1.19</b>	<b>1.16</b>	0.100 M	3.50 M	<b>3.09</b>	<b>1.41</b>	
	07/26/04	<b>6.24</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	<b>1.46</b>	<b>1.67</b>	1.00 M	4.50 M	<b>2.69</b>	<b>1.47</b>	
	11/01/04	<b>3.49</b>	0.100 M	<b>0.218</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.100 M	0.200 M	<b>0.868</b>	<b>1.12</b>	0.100 M	1.70 M	<b>1.20</b>	<b>1.66</b>	
	2/2/2005**	<b>6.34</b>	0.300 M	<b>0.389</b>	<b>0.144</b>	<b>0.124</b>	0.200 M	0.200 M	<b>0.186</b>	0.400 M	<b>1.51</b>	<b>2.28</b>	0.200 M	2.00 M	<b>2.81</b>	<b>2.03</b>	
	3/25/05***	<b>7.08</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	<b>1.83</b>	<b>2.41</b>	1.00 M	2.50 M	<b>3.26</b>	<b>2.19</b>	
MW-23	07/26/04	<b>1.15</b>	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	<b>1.95</b>	1.00 M	3.00 M	<b>1.20</b>	1.00 M		
	11/01/04	<b>1.39</b>	0.500 M	0.500 M	<b>0.500</b>	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	<b>2.47</b>	0.500 M	1.00 M	<b>2.02</b>	0.500 M		
DUP	11/01/04	<b>1.31</b>	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	<b>2.29</b>	0.500 M	1.00 M	<b>1.86</b>	0.500 M		
MW-24	07/26/04	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	1.00 M	2.00 M	<b>1.55</b>	1.00 M	2.00 M	<b>1.35</b>	1.00 M		
	11/01/04	<b>0.506</b>	0.500 M	0.500 M	<b>0.500</b>	0.500 M	0.500 M	0.500 M	0.500 M	0.500 M	<b>1.20</b>	0.500 M	0.500 M	0.500 M	0.500 M	0.260	
	2/2/2005**	<b>0.627</b>	0.100 M	0.200 M	<b>0.0766</b>	0.100 M	0.100 M	0.100 M	0.100 M	0.225	0.200 M	<b>0.133</b>	<b>1.15</b>	0.100 M	0.550 M	0.200 M	<b>0.260</b>
RW-1	11/26/02*	30.0 U	25.0 U	<b>14.3</b>	<b>1.41</b>	1.00 U	<b>1.70</b>	1.00 U	1.00 U	<b>4.19</b>	2.00 U	<b>4.57</b>	130 U	1.00 U	<b>224</b>	<b>87.0</b>	<b>16.1</b>
RW-2	11/26/02*	<b>6.30</b>	0.100 U	<b>2.42</b>	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	<b>1.83</b>	2.00 U	<b>1.21</b>	<b>14.7</b>	1.00 U	<b>56.2</b>	<b>17.7</b>	<b>1.75</b>
RW-3	11/26/02*	70.0 U	57.1 U	<b>19.5</b>	<b>2.48</b>	<b>2.02</b>	<b>1.43</b>	1.14 U	<b>1.45</b>	<b>5.45</b>	2.29 U	<b>6.02</b>	186 U	1.14 U	100 U	<b>231</b>	<b>18.8</b>

**NOTES:**

Polymer Aromatic Compounds (PAHs) analyzed by USEPA Method 8270M-SM

$\mu\text{g/L}$  = micrograms per liter

J = Estimated Value

U = Analyte included in the analysis but not detected above laboratory method detection limits (MDLs)

M = Analyte included in the analysis but not detected above laboratory method reporting limits (MRLs)

**Bold Face Font** = Analyte detected above the MRLs

\* = Additional RI Sampling

\*\* = Laboratory flagged data because of method blank contamination.

\*\*\* = Resampling of three wells due to method blank contamination.

**TABLE 4**  
**GROUNDWATER ANALYTICAL - TOTAL METALS**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-1	02/01/02	<b>0.0051</b>	<b>0.137J</b>	0.00100 U	<b>0.0019</b>	<b>0.0035</b>	0.00100 M	0.000200 U	0.00100 M	0.00100 U	<b>0.00863</b>
	11/26/02*	<b>0.00576</b>	<b>0.192</b>	0.00100 U	<b>0.00638</b>	<b>0.0165</b>	<b>0.00580</b>	0.000200 U	<b>0.00111</b>	0.00100 U	<b>0.0278</b>
	01/29/03	<b>0.00408</b>	<b>0.142</b>	0.00100 M	<b>0.00216</b>	<b>0.00657</b>	<b>0.00293</b>	0.000400 M	0.00100 M	0.00100 M	<b>0.0113</b>
	04/30/03	<b>0.00451</b>	<b>0.102</b>	0.00100 M	<b>0.00108</b>	0.00200 M	0.00100 M	0.000200 M	<b>0.00123</b>	0.00100 M	0.00500 M
MW-2	11/26/02*	<b>0.0410</b>	<b>0.119</b>	0.00100 U	<b>0.00132</b>	<b>0.00345</b>	<b>0.00497</b>	0.000200 U	0.00100 U	0.00100 U	<b>0.00770</b>
MW-3	11/26/02*	<b>0.0198</b>	<b>0.152</b>	0.00100 U	<b>0.00303</b>	<b>0.00599</b>	<b>0.00247</b>	0.000200 U	<b>0.00140</b>	0.00100 U	<b>0.0144</b>
MW-4	02/01/02	<b>0.00554</b>	<b>0.0916</b>	0.00100 U	0.00100 M	<b>0.00248</b>	0.00100 M	0.000200 U	<b>0.00113</b>	0.00100 U	0.00500 M
	04/25/02	NA	NA	NA	NA	NA	0.00100 U	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	0.00100 M	NA	NA	NA	NA
	10/30/02	NA	NA	NA	NA	NA	<b>0.00438</b>	NA	NA	NA	NA
DUP	10/30/02	NA	NA	NA	NA	NA	<b>0.00607</b>	NA	NA	NA	NA
	01/29/03	<b>0.00503</b>	<b>0.0791</b>	0.00100 M	<b>0.00102</b>	0.00200 M	0.00100 M	0.000200 M	0.00100 M	0.00100 M	0.00500 M
	04/30/03	<b>0.00511</b>	<b>0.0759</b>	0.00100 M	0.00100 M	0.00200 M	0.00100 M	0.000200 M	<b>0.00137</b>	0.00100 M	<b>0.00540</b>
	07/29/03	<b>0.0388</b>	<b>0.107</b>	0.00500 M	<b>0.00733</b>	<b>0.00679</b>	<b>0.00177</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0196</b>
	10/28/03	<b>0.0734</b>	<b>0.202</b>	0.00100 M	<b>0.0187</b>	<b>0.0219</b>	<b>0.00898</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0735</b>
	01/30/04	<b>0.0123</b>	<b>0.0950</b>	0.00100 M	<b>0.00132</b>	<b>0.00221</b>	0.00100 M	0.000200 M	<b>0.00117</b>	0.00100 M	<b>0.0168</b>
	04/29/04	<b>0.0301</b>	<b>0.109</b>	0.00100 M	<b>0.00616</b>	<b>0.00666</b>	<b>0.00242</b>	0.000200 M	<b>0.00198</b>	0.00100 M	<b>0.0226</b>
	07/26/04	<b>0.146</b>	<b>0.285</b>	0.00653 M	<b>0.0345</b>	<b>0.0528</b>	<b>0.0158</b>	0.000200 M	<b>0.00192</b>	0.00100 M	<b>0.166</b>
	11/01/04	<b>0.207</b>	<b>0.560</b>	0.00100 M	<b>0.0745</b>	<b>0.0917</b>	<b>0.0296</b>	<b>0.000328</b>	<b>0.00190</b>	0.00100 M	<b>0.285</b>
	02/02/05	<b>0.110</b>	<b>0.250</b>	0.00100 M	<b>0.0293</b>	<b>0.0366</b>	<b>0.0134</b>	0.000200 M	0.00200 M	0.00100 M	<b>0.105</b>
MW-5	02/01/02	<b>0.00342</b>	<b>0.14</b>	0.00100 M	<b>0.00611</b>	<b>0.0161</b>	<b>0.00809</b>	0.000200 U	0.00100 M	0.00100 U	<b>0.0356</b>
	04/24/02	NA	NA	NA	NA	NA	<b>0.00976</b>	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	<b>0.00722</b>	NA	NA	NA	NA
	01/28/03	<b>0.00246</b>	<b>0.0801</b>	0.00100 M	<b>0.00316</b>	<b>0.00675</b>	<b>0.00475</b>	0.000800 M	0.00100 M	0.00100 M	<b>0.0222</b>
	04/30/03	<b>0.00195</b>	<b>0.0637</b>	0.00100 M	<b>0.00210</b>	<b>0.00662</b>	<b>0.00387</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0170</b>
	01/29/04	<b>0.00243</b>	<b>0.0855</b>	0.00100 M	<b>0.00218</b>	<b>0.00648</b>	<b>0.00463</b>	0.000200 M	<b>0.00110</b>	0.00100 M	<b>0.0243</b>
	04/28/04	<b>0.00188</b>	<b>0.0729</b>	0.00100 M	<b>0.00244</b>	<b>0.00560</b>	<b>0.00305</b>	0.000200 M	<b>0.00105</b>	0.00100 M	<b>0.0152</b>
MW-6	02/01/02	<b>0.0403</b>	<b>0.204</b>	<b>0.00189</b>	<b>0.00163</b>	<b>0.0069</b>	<b>0.00265</b>	0.000200 U	0.00100 M	0.00100 U	<b>0.0486</b>
	04/24/02	NA	NA	NA	NA	NA	<b>0.00143</b>	NA	NA	NA	NA
	01/29/03	<b>0.0465</b>	<b>0.182</b>	0.00100 M	<b>0.00253</b>	<b>0.00724</b>	<b>0.00651</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0617</b>
	04/29/03	<b>0.0391</b>	<b>0.0961</b>	0.00100 M	0.00100 M	<b>0.00200</b>	0.00100 M	0.000200 M	0.00100 M	0.00100 M	<b>0.00619</b>
	01/29/04	<b>0.0551</b>	<b>0.129</b>	0.00100 M	0.00100 M	<b>0.00430</b>	<b>0.00206</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0178</b>
DUP	01/29/04	<b>0.0570</b>	<b>0.137</b>	0.00100 M	0.00100 M	<b>0.00417</b>	<b>0.00203</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0156</b>
	04/28/04	<b>0.0587</b>	<b>0.109</b>	0.00100 M	<b>0.00106</b>	<b>0.00379</b>	<b>0.00137</b>	0.000200M	<b>0.00234</b>	0.00100 M	<b>0.0130</b>

**TABLE 4**  
**GROUNDWATER ANALYTICAL - TOTAL METALS**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)	
MW-7	01/31/02	<b>0.00339</b>	<b>0.0788</b>	0.00100 M	<b>0.00294</b>	<b>0.00673</b>	<b>0.00214</b>	0.000200 U	0.00100 M	0.00100 U	<b>0.014</b>	
	04/24/02	NA	NA	NA	NA	NA	<b>0.00240</b>	NA	NA	NA	NA	
	07/29/02	NA	NA	NA	NA	NA	<b>0.00735</b>	NA	NA	NA	NA	
	10/29/02	NA	NA	NA	NA	NA	<b>0.0346</b>	NA	NA	NA	NA	
	01/28/03	<b>0.00161</b>	<b>0.0574</b>	0.00100 M	0.00100 M	<b>0.00318</b>	<b>0.00108</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.00763</b>	
	04/29/03	<b>0.00171</b>	<b>0.0629</b>	0.00100 M	<b>0.00174</b>	<b>0.00396</b>	<b>0.00219</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0135</b>	
	07/29/03	0.00500 M	<b>0.0735</b>	0.00500 M	<b>0.00676</b>	<b>0.00675</b>	<b>0.00223</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0166</b>	
	10/28/03	<b>0.00180</b>	<b>0.0516</b>	0.00100 M	0.00100 M	<b>0.00292</b>	0.00100 M	0.000200 M	0.00100 M	0.00100 M	<b>0.00595</b>	
	DUP	10/28/03	<b>0.00578</b>	<b>0.185</b>	0.00100 M	<b>0.00873</b>	<b>0.0199</b>	<b>0.00980</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0532</b>
	01/29/04	<b>0.00239</b>	<b>0.0789</b>	0.00100 M	<b>0.00286</b>	<b>0.00563</b>	<b>0.00249</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0201</b>	
MW-8	04/28/04	<b>0.00219</b>	<b>0.105</b>	0.00100 M	<b>0.00347</b>	<b>0.00848</b>	<b>0.00411</b>	0.000200 M	<b>0.00100</b>	0.00100 M	<b>0.0214</b>	
	07/26/04	<b>0.00705</b>	<b>0.176</b>	0.00664M	<b>0.00895</b>	<b>0.0221</b>	<b>0.00779</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0554</b>	
	11/01/04	<b>0.0134</b>	<b>0.255</b>	0.00100 M	<b>0.0196</b>	<b>0.0372</b>	<b>0.0159</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.101</b>	
	02/01/05	<b>0.00740</b>	<b>0.140</b>	0.00100 M	<b>0.00826</b>	<b>0.0165</b>	<b>0.00758</b>	0.000200 M	0.00200 M	0.00100 M	<b>0.0428</b>	
	02/01/02	<b>0.00884</b>	<b>0.0396</b>	0.00100 M	0.00100 M	0.00100 M	<b>0.01160</b>	0.000200 U	0.00100 M	0.00100 U	0.00500 M	
	04/25/02	NA	NA	NA	NA	NA	<b>0.00761</b>	NA	NA	NA	NA	
	07/29/02	NA	NA	NA	NA	NA	<b>0.00510</b>	NA	NA	NA	NA	
	10/30/02	NA	NA	NA	NA	NA	<b>0.00495</b>	NA	NA	NA	NA	
	01/29/03	<b>0.00530</b>	<b>0.0348</b>	0.00100 M	0.00100 M	0.00200 M	<b>0.0147</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.00979</b>	
	04/30/03	<b>0.00560</b>	<b>0.0265</b>	0.00100 M	0.00100 M	0.00200 M	<b>0.00900</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0121</b>	
MW-9	07/29/03	<b>0.00922</b>	<b>0.106</b>	0.00500 M	0.00500 M	0.00500 M	<b>0.00355</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0172</b>	
	10/28/03	<b>0.00284</b>	<b>0.0502</b>	0.00100 M	<b>0.00158</b>	<b>0.00316</b>	<b>0.00373</b>	0.000200 M	<b>0.00104</b>	0.00100 M	<b>0.00704</b>	
	01/30/04	<b>0.00333</b>	<b>0.0318</b>	0.00100 M	0.00100 M	0.00200 M	<b>0.0109</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.00743</b>	
	04/29/04	<b>0.00204</b>	<b>0.0414</b>	0.00100 M	<b>0.00214</b>	<b>0.00742</b>	<b>0.00864</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0144</b>	
	07/26/04	<b>0.00184</b>	<b>0.0500</b>	0.00100 M	<b>0.00169</b>	<b>0.00317</b>	<b>0.00461</b>	0.000200 M	<b>0.00113</b>	0.00100 M	<b>0.0110</b>	
	11/01/04	0.00100 M	<b>0.0347</b>	0.00100 M	0.00100 M	0.00200 M	<b>0.00133</b>	0.000200 M	0.00100 M	0.00100 M	0.00500 M	
	02/02/05	<b>0.00308</b>	<b>0.0554</b>	<b>0.00206</b>	<b>0.00210</b>	<b>0.00786</b>	<b>0.00899</b>	0.000200 M	0.00200 M	0.00100 M	<b>0.0230</b>	
	02/01/02	<b>0.0384</b>	<b>0.288</b>	0.00100 M	<b>0.0228</b>	<b>0.048</b>	<b>0.02390</b>	0.000200 U	<b>0.00133</b>	0.00100 M	<b>0.106</b>	
	04/25/02	NA	NA	NA	NA	NA	<b>0.00102</b>	NA	NA	NA	NA	
	07/29/02	NA	NA	NA	NA	NA	<b>0.03840</b>	NA	NA	NA	NA	
	10/30/02	NA	NA	NA	NA	NA	<b>0.0802</b>	NA	NA	NA	NA	
	01/29/03	<b>0.0308</b>	<b>0.0806</b>	0.00100 M	<b>0.00265</b>	<b>0.00462</b>	<b>0.00273</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0162</b>	
	04/30/03	<b>0.0352</b>	<b>0.0889</b>	0.00100 M	<b>0.00306</b>	<b>0.00530</b>	<b>0.00390</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0199</b>	
	07/30/03	<b>0.0570</b>	<b>0.351</b>	0.00500 M	<b>0.0359</b>	<b>0.0645</b>	<b>0.0351</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.177</b>	
	10/29/03	<b>0.0455</b>	<b>0.352</b>	0.00100 M	<b>0.0284</b>	<b>0.0816</b>	<b>0.0339</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.154</b>	
	01/30/04	<b>0.0527</b>	<b>0.143</b>	0.00100 M	<b>0.00629</b>	<b>0.0118</b>	<b>0.00820</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0601</b>	
	04/29/04	<b>0.0488</b>	<b>0.0915</b>	0.00100 M	<b>0.00374</b>	<b>0.00723</b>	<b>0.00392</b>	0.000200 M	<b>0.00169</b>	0.00100 M	<b>0.0284</b>	
	07/26/04	<b>0.0650</b>	<b>0.276</b>	0.00624M	<b>0.00772</b>	<b>0.0147</b>	<b>0.00961</b>	0.000200 M	<b>0.00192</b>	0.00100 M	<b>0.0708</b>	
	11/01/04	<b>0.118</b>	<b>1.80</b>	<b>0.00154</b>	<b>0.223</b>	<b>0.366</b>	<b>0.142</b>	<b>0.000546</b>	<b>0.00318</b>	<b>0.00117</b>	<b>0.959</b>	
	02/02/05	<b>0.110</b>	<b>0.937</b>	<b>0.00150</b>	<b>0.0868</b>	<b>0.174</b>	<b>0.110</b>	0.000200 M	0.00200 M	0.00100 M	<b>0.469</b>	

**TABLE 4**  
**GROUNDWATER ANALYTICAL - TOTAL METALS**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-10	02/01/02	<b>0.00576</b>	<b>0.0204</b>	0.00100 U	<b>0.00149</b>	0.00200 M	<b>0.00308</b>	0.000200 U	0.00100 M	0.00100 U	<b>0.00563</b>
DUP	02/01/02	<b>0.00485</b>	<b>0.0128</b>	0.00100 U	<b>0.00103</b>	0.00200 M	<b>0.00226</b>	0.000200 U	0.00100 U	0.00100 U	0.00500 M
	04/25/02	NA	NA	NA	NA	NA	<b>0.00648</b>	NA	NA	NA	NA
	11/27/02*	<b>0.0187</b>	<b>0.553</b>	<b>0.00286</b>	<b>0.107</b>	<b>0.167</b>	<b>0.153</b>	0.000200 U	<b>0.00208</b>	<b>0.00122</b>	<b>0.465</b>
	04/30/03	<b>0.00672</b>	<b>0.0600</b>	0.00100 M	<b>0.00661</b>	<b>0.0116</b>	<b>0.0477</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0421</b>
	07/30/03	0.00500 M	<b>0.0254</b>	0.00500 M	<b>0.00520</b>	0.00500 M	0.0123	0.000200 M	0.00500 M	0.00500 M	<b>0.0155</b>
	10/29/03	<b>0.00496</b>	<b>0.0273</b>	0.00100 M	0.00100 M	0.00200 M	<b>0.00941</b>	0.000200 M	0.00100 M	0.00100 M	0.00500 M
MW-12	01/31/02	<b>0.0594</b>	<b>0.0804</b>	0.00100 U	<b>0.00138</b>	0.00200 M	<b>0.00175</b>	0.000200 U	0.00100 M	0.00100 U	0.00500 M
	04/25/02	NA	NA	NA	NA	NA	<b>0.00444</b>	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	<b>0.00860</b>	NA	NA	NA	NA
DUP	07/29/02	NA	NA	NA	NA	NA	<b>0.00768</b>	NA	NA	NA	NA
	10/29/02	NA	NA	NA	NA	NA	<b>0.0208</b>	NA	NA	NA	NA
	01/28/03	<b>0.0576</b>	<b>0.0886</b>	0.00100 M	<b>0.00337</b>	<b>0.00396</b>	<b>0.00618</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0115</b>
	04/29/03	<b>0.0624</b>	<b>0.0838</b>	0.00100 M	<b>0.00219</b>	<b>0.00300</b>	<b>0.00496</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0144</b>
	07/29/03	<b>0.0636</b>	<b>0.0476</b>	0.00500 M	0.00500 M	0.00500 M	<b>0.00187</b>	0.000200 M	0.00500 M	0.00500 M	0.00500 M
	10/28/03	<b>0.0704</b>	<b>0.130</b>	0.00100 M	<b>0.00992</b>	<b>0.0132</b>	<b>0.0188</b>	0.000200 M	0.00200 M	0.00100 M	<b>0.0318</b>
	01/29/04	<b>0.0736</b>	<b>0.0938</b>	0.00100 M	<b>0.00358</b>	<b>0.00456</b>	<b>0.00918</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0172</b>
	04/29/04	<b>0.0778</b>	<b>0.0683</b>	0.00100 M	<b>0.00136</b>	0.00200 M	<b>0.00192</b>	0.000200 M	0.00100 M	0.00100 M	0.00500 M
	07/26/04	<b>0.0698</b>	<b>0.101</b>	0.00100 M	<b>0.00449</b>	<b>0.00645</b>	<b>0.00694</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0170</b>
	11/01/04	<b>0.0702</b>	<b>0.226</b>	0.00100 M	<b>0.0223</b>	<b>0.0300</b>	<b>0.0218</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0657</b>
	02/02/05	<b>0.0875</b>	<b>0.137</b>	0.00100 M	<b>0.00834</b>	<b>0.00986</b>	<b>0.0115</b>	0.000200 M	0.00200 M	0.00100 M	<b>0.0260</b>
MW-13	01/31/02	<b>0.0551</b>	<b>0.254</b>	0.00100 U	<b>0.0156</b>	0.0259	<b>0.0138</b>	0.000200 U	0.00100 M	0.00100 U	<b>0.0648</b>
DUP	01/31/02	<b>0.0543</b>	<b>0.266</b>	0.00100 U	<b>0.0177</b>	<b>0.0279</b>	<b>0.0145</b>	0.000200 U	0.00100 M	0.00100 M	<b>0.0764</b>
	04/25/02	NA	NA	NA	NA	NA	<b>0.0109</b>	NA	NA	NA	NA
DUP	04/25/02	NA	NA	NA	NA	NA	<b>0.0150</b>	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	<b>0.4170</b>	NA	NA	NA	NA
	10/29/02	NA	NA	NA	NA	NA	<b>2.58</b>	NA	NA	NA	NA
DUP	10/29/02	NA	NA	NA	NA	NA	<b>2.02</b>	NA	NA	NA	NA
	01/28/03	<b>0.0608</b>	<b>0.0951</b>	0.00100 M	<b>0.00280</b>	<b>0.00422</b>	<b>0.00451</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0233</b>
DUP	01/28/03	<b>0.0608</b>	<b>0.0949</b>	0.00100 M	<b>0.00299</b>	<b>0.00361</b>	<b>0.00409</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0133</b>
	04/29/03	<b>0.0511</b>	<b>0.214</b>	0.00100 M	<b>0.0112</b>	<b>0.0174</b>	<b>0.0160</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.195</b>
	07/29/03	<b>0.0397</b>	<b>0.0919</b>	0.00500 M	<b>0.00510</b>	0.00500 M	<b>0.00221</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0220</b>
	10/28/03	<b>0.105</b>	<b>0.721</b>	0.00100 M	<b>0.0586</b>	<b>0.115</b>	<b>0.0725</b>	0.000200 M	<b>0.00113</b>	0.00100 M	<b>0.268</b>
	01/29/04	<b>0.0720</b>	<b>0.216</b>	0.00100 M	<b>0.00948</b>	<b>0.0140</b>	<b>0.0139</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.237</b>
	04/28/04	<b>0.0838</b>	<b>0.272</b>	0.00100 M	<b>0.0134</b>	<b>0.0257</b>	<b>0.0226</b>	0.000200 M	<b>0.00125</b>	0.00100 M	<b>0.0781</b>
	07/28/04	<b>0.0895</b>	<b>0.483</b>	0.00637M	<b>0.0458</b>	<b>0.0771</b>	<b>0.0459</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.201</b>
DUP	07/28/04	<b>0.0685</b>	<b>0.353</b>	0.00648M	<b>0.0306</b>	<b>0.0516</b>	<b>0.0296</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.136</b>
	11/01/04	<b>0.224</b>	<b>5.29</b>	0.0100 M	<b>0.628</b>	<b>1.03</b>	<b>0.767</b>	<b>0.000981</b>	0.0100 M	0.0100 M	<b>2.58</b>
	02/01/05	<b>0.102</b>	<b>0.303</b>	0.00100 M	<b>0.0246</b>	<b>0.0420</b>	<b>0.0321</b>	0.000200 M	0.00200 M	0.00100 M	<b>0.112</b>
DUP	02/01/05	<b>0.100</b>	<b>0.339</b>	0.00100 M	<b>0.0248</b>	<b>0.0401</b>	<b>0.0321</b>	0.000200 M	0.00200 M	0.00100 M	<b>0.112</b>

**TABLE 4**  
**GROUNDWATER ANALYTICAL - TOTAL METALS**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-14	01/31/02	<b>0.0165</b>	<b>0.456</b>	0.00100 M	<b>0.0402</b>	<b>0.078</b>	<b>0.0332</b>	0.000200 U	0.00100 M	0.00100 M	<b>0.199</b>
	04/24/02	NA	NA	NA	NA	NA	<b>0.0140</b>	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	<b>0.2520</b>	NA	NA	NA	NA
	10/29/02	NA	NA	NA	NA	NA	<b>0.103</b>	NA	NA	NA	NA
	01/29/03	<b>0.0149</b>	<b>0.341</b>	0.00100 M	<b>0.0364</b>	<b>0.0804</b>	<b>0.0269</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.168</b>
	04/29/03	<b>0.00954</b>	<b>0.328</b>	0.00100 M	<b>0.0228</b>	<b>0.0466</b>	<b>0.0231</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.186</b>
	07/29/03	0.00500 M	<b>0.0485</b>	0.00500 M	0.00500 M	<b>0.00520</b>	0.00100 M	0.000200 M	0.00500 M	0.00500 M	<b>0.0148</b>
	10/28/03	<b>0.00451</b>	<b>0.130</b>	0.00100 M	<b>0.00703</b>	<b>0.0150</b>	<b>0.00590</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0382</b>
	01/29/04	<b>0.00456</b>	<b>0.162</b>	0.00100 M	<b>0.00888</b>	<b>0.0180</b>	<b>0.00797</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0495</b>
	04/28/04	<b>0.0146</b>	<b>0.349</b>	0.00100 M	<b>0.0294</b>	<b>0.0566</b>	<b>0.0269</b>	0.000200 M	<b>0.00173</b>	0.00100 M	<b>0.146</b>
	07/26/04	<b>0.00836</b>	<b>0.998</b>	0.00635M	<b>0.00866</b>	<b>0.0327</b>	<b>0.00606</b>	<b>0.000238</b>	<b>0.00103</b>	0.00100M	<b>0.0954</b>
	11/01/04	<b>0.101</b>	<b>2.60</b>	0.0100 M	<b>0.243</b>	<b>0.436</b>	<b>0.192</b>	<b>0.000223</b>	0.0100 M	0.0100 M	<b>1.29</b>
	02/01/05	<b>0.0248</b>	<b>0.567</b>	0.00100 M	<b>0.0440</b>	<b>0.0895</b>	<b>0.0542</b>	0.000200 M	0.00200 M	0.00100 M	<b>0.242</b>
MW-15	01/31/02	<b>0.00951</b>	<b>0.262</b>	0.00100 M	<b>0.0224</b>	<b>0.0355</b>	<b>0.0133</b>	0.000200 U	<b>0.0011</b>	0.00100 U	<b>0.0936</b>
	04/24/02	NA	NA	NA	NA	NA	<b>0.0754</b>	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	<b>0.2270</b>	NA	NA	NA	NA
	10/29/02	NA	NA	NA	NA	NA	<b>0.0190</b>	NA	NA	NA	NA
	01/29/03	<b>0.0113</b>	<b>0.299</b>	0.00100 M	<b>0.0329</b>	<b>0.0464</b>	<b>0.0197</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.142</b>
	04/29/03	<b>0.00359</b>	<b>0.0986</b>	0.00100 M	<b>0.00965</b>	<b>0.0109</b>	<b>0.00529</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0331</b>
DUP	04/29/03	<b>0.00322</b>	<b>0.0842</b>	0.00100 M	<b>0.00894</b>	<b>0.00905</b>	<b>0.00409</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0288</b>
	07/29/03	<b>0.0361</b>	<b>1.34</b>	0.0500 M	<b>0.0858</b>	<b>0.145</b>	<b>0.0798</b>	0.000200 M	0.0500 M	0.0500 M	<b>0.553</b>
DUP	07/29/03	<b>0.0239</b>	<b>0.765</b>	0.00500 M	<b>0.0538</b>	<b>0.0971</b>	<b>0.0492</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.274</b>
	10/28/03	<b>0.0135</b>	<b>1.57</b>	0.00100 M	<b>0.0466</b>	<b>0.0792</b>	<b>0.0155</b>	0.000200 M	<b>0.00246</b>	0.00100 M	<b>0.302</b>
	01/29/04	<b>0.00322</b>	<b>0.0942</b>	0.00100 M	<b>0.00874</b>	<b>0.00883</b>	<b>0.00374</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0288</b>
	04/28/04	<b>0.00343</b>	<b>0.279</b>	0.00100 M	<b>0.0115</b>	<b>0.0167</b>	<b>0.00460</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0566</b>
	07/26/04	<b>0.00810</b>	<b>0.186</b>	0.00100 M	<b>0.0147</b>	<b>0.0286</b>	<b>0.0112</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0790</b>
	11/01/04	<b>0.0780</b>	<b>2.28</b>	0.00100 M	<b>0.261</b>	<b>0.370</b>	<b>0.110</b>	<b>0.000237</b>	<b>0.00477</b>	<b>0.00155</b>	<b>1.10</b>
	02/01/05	<b>0.0124</b>	<b>0.301</b>	0.00100 M	<b>0.0278</b>	<b>0.0448</b>	<b>0.0239</b>	0.000200 M	0.00200 M	0.00100 M	<b>0.129</b>

**TABLE 4**  
**GROUNDWATER ANALYTICAL - TOTAL METALS**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-16	02/01/02	<b>0.116</b>	<b>0.354</b>	0.00100 M	<b>0.0465</b>	<b>0.0508</b>	<b>0.0312</b>	0.000200 U	0.00100 M	0.00100 M	<b>0.144</b>
	04/25/02	NA	NA	NA	NA	NA	<b>0.00998</b>	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	<b>0.120</b>	NA	NA	NA	NA
DUP	07/30/02	NA	NA	NA	NA	NA	<b>0.126</b>	NA	NA	NA	NA
	11/27/02*	<b>0.120</b>	<b>3.69</b>	0.00100 U	<b>0.610</b>	<b>0.546</b>	<b>0.323</b>	<b>0.000265</b>	0.00100 U	0.00100 U	<b>1.40</b>
	01/28/03	<b>0.0908</b>	<b>0.104</b>	0.00100 M	<b>0.00704</b>	<b>0.00652</b>	<b>0.00702</b>	0.000400 M	0.00100 M	0.00100 M	<b>0.0216</b>
DUP	01/28/03	<b>0.0891</b>	<b>0.135</b>	0.00100 M	<b>0.0121</b>	<b>0.0116</b>	<b>0.0106</b>	0.000400 M	0.00100 M	0.00100 M	<b>0.0367</b>
	04/29/03	<b>0.0895</b>	<b>0.0885</b>	0.00100 M	<b>0.00696</b>	<b>0.00764</b>	<b>0.00828</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0247</b>
	07/29/03	<b>0.116</b>	<b>5.83</b>	0.100 M	<b>0.718</b>	<b>0.764</b>	<b>0.466</b>	<b>0.000854</b>	0.100 M	0.100 M	<b>2.18</b>
	10/28/03	<b>0.112</b>	<b>0.397</b>	0.00100 M	<b>0.0498</b>	<b>0.0511</b>	<b>0.0355</b>	0.000200 U	0.00100 M	0.00100 M	<b>0.130</b>
	04/28/04	<b>0.108</b>	<b>0.0996</b>	0.00100 M	<b>0.00673</b>	<b>0.00614</b>	<b>0.00712</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0175</b>
DUP	04/28/04	<b>0.0994</b>	<b>0.116</b>	0.00100 M	<b>0.00811</b>	<b>0.00796</b>	<b>0.0102</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0248</b>
	07/26/04	<b>0.120</b>	<b>0.336</b>	0.00638M	<b>0.0166</b>	<b>0.0139</b>	<b>0.0152</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0890</b>
	11/01/04	<b>0.111</b>	<b>0.188</b>	0.00100 M	<b>0.0119</b>	<b>0.0112</b>	<b>0.00843</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0334</b>
MW-17	01/31/02	<b>0.00574</b>	<b>0.209</b>	0.00100 U	<b>0.00604</b>	<b>0.00954</b>	<b>0.00374</b>	0.000200 U	0.00100 U	0.00100 U	<b>0.0242</b>
	04/24/02	NA	NA	NA	NA	NA	<b>0.0106</b>	NA	NA	NA	NA
	07/30/02	NA	NA	NA	NA	NA	<b>0.0801</b>	NA	NA	NA	NA
	10/30/02	NA	NA	NA	NA	NA	<b>0.115</b>	NA	NA	NA	NA
	01/29/03	<b>0.00858</b>	<b>0.161</b>	0.00100 M	<b>0.0116</b>	<b>0.0177</b>	<b>0.0106</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0558</b>
	04/29/03	<b>0.0109</b>	<b>0.133</b>	0.00100 M	<b>0.00694</b>	<b>0.0110</b>	<b>0.00589</b>	0.000200 M	<b>0.00117</b>	0.00100 M	<b>0.0358</b>
DUP	04/29/03	<b>0.0119</b>	<b>0.148</b>	0.00100 M	<b>0.00738</b>	<b>0.0120</b>	<b>0.00679</b>	0.000200 M	<b>0.00124</b>	0.00100 M	<b>0.0417</b>
	07/29/03	<b>0.0338</b>	<b>0.477</b>	0.00500 M	<b>0.0461</b>	<b>0.0865</b>	<b>0.0465</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.218</b>
DUP	07/29/03	<b>0.0213</b>	<b>0.203</b>	0.00500 M	<b>0.0170</b>	<b>0.0311</b>	<b>0.0139</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0733</b>
	10/28/03	<b>0.0308</b>	<b>0.820</b>	<b>0.00359</b>	<b>0.0802</b>	<b>0.164</b>	<b>0.0757</b>	0.000200 M	<b>0.00141</b>	0.00100 M	<b>0.401</b>
	01/29/04	<b>0.00429</b>	<b>0.125</b>	0.00100 M	<b>0.00510</b>	<b>0.00895</b>	<b>0.00484</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0295</b>
	04/28/04	<b>0.0136</b>	<b>0.216</b>	0.00100 M	<b>0.0137</b>	<b>0.0257</b>	<b>0.0123</b>	0.000200 M	<b>0.00129</b>	0.00100 M	<b>0.0736</b>
	07/28/04	<b>0.0235</b>	<b>0.268</b>	0.00100 M	<b>0.0213</b>	<b>0.0391</b>	<b>0.0178</b>	0.000200 M	<b>0.00128</b>	0.00100 M	<b>0.106</b>
	11/01/04	<b>0.0218</b>	<b>0.411</b>	0.00100 M	<b>0.0464</b>	<b>0.0866</b>	<b>0.0362</b>	0.000200 M	<b>0.00142</b>	0.00100 M	<b>0.223</b>
	02/01/05	<b>0.0112</b>	<b>0.259</b>	<b>0.00116</b>	<b>0.0188</b>	<b>0.0353</b>	<b>0.0198</b>	0.000200 M	0.00200 M	0.00100 M	<b>0.0906</b>

**TABLE 4**  
**GROUNDWATER ANALYTICAL - TOTAL METALS**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-18	04/25/02	NA	NA	NA	NA	NA	<b>0.0362</b>	NA	NA	NA	NA
DUP	04/25/02	NA	NA	NA	NA	NA	<b>0.0294</b>	NA	NA	NA	NA
	07/29/02	NA	NA	NA	NA	NA	<b>0.0094</b>	NA	NA	NA	NA
	10/30/02	NA	NA	NA	NA	NA	<b>0.0460</b>	NA	NA	NA	NA
	01/29/03	<b>0.00255</b>	<b>0.0930</b>	0.00100 M	<b>0.00340</b>	<b>0.00593</b>	<b>0.00269</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0178</b>
	04/29/03	<b>0.00935</b>	<b>0.329</b>	0.00100 M	<b>0.0248</b>	<b>0.0363</b>	<b>0.0230</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.118</b>
	07/30/03	<b>0.0386</b>	<b>0.758</b>	0.00500 M	<b>0.0734</b>	<b>0.121</b>	<b>0.0655</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.342</b>
	10/29/03	<b>0.0348</b>	<b>0.781</b>	0.00100 M	<b>0.0787</b>	<b>0.132</b>	<b>0.0694</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.364</b>
	01/30/04	<b>0.00295</b>	<b>0.159</b>	0.00100 M	<b>0.00540</b>	<b>0.00916</b>	<b>0.00384</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0284</b>
	04/28/04	<b>0.00482</b>	<b>0.112</b>	0.00100 M	<b>0.00702</b>	<b>0.00950</b>	<b>0.00487</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0287</b>
	07/26/04	<b>0.00359</b>	<b>0.227</b>	0.00100 M	<b>0.00632</b>	<b>0.0124</b>	<b>0.00328</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0380</b>
	11/01/04	<b>0.0374</b>	<b>0.670</b>	0.00100 M	<b>0.0903</b>	<b>0.152</b>	<b>0.0565</b>	0.000200 M	<b>0.00189</b>	0.00100 M	<b>0.427</b>
	02/01/05	<b>0.0188</b>	<b>0.553</b>	0.00100 M	<b>0.0360</b>	<b>0.0581</b>	<b>0.0353</b>	0.000200 M	0.00200 M	0.00100 M	<b>0.176</b>
MW-20	05/01/03	<b>0.00887</b>	<b>0.0290</b>	0.00100 M	<b>0.00156</b>	<b>0.00213</b>	<b>0.00230</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.00834</b>
	07/30/03	<b>0.0149</b>	<b>0.107</b>	0.00500 M	<b>0.0131</b>	<b>0.0226</b>	<b>0.00896</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0442</b>
MW-21	05/01/03	<b>0.00571</b>	<b>0.108</b>	0.00100 M	<b>0.0123</b>	<b>0.0237</b>	<b>0.0297</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0641</b>
	07/30/03	<b>0.0119</b>	<b>0.120</b>	0.00500 M	<b>0.0134</b>	<b>0.0621</b>	<b>0.0269</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0467</b>
MW-22	05/01/03	<b>0.00377</b>	<b>0.0146</b>	0.00100 M	0.00100 M	0.00200 M	0.00100 M	0.000200 M	0.00100 M	0.00100 M	0.00500 M
	07/30/03	<b>0.0148</b>	<b>0.114</b>	0.00500 M	<b>0.0143</b>	<b>0.0195</b>	<b>0.0121</b>	0.000200 M	0.00500 M	0.00500 M	<b>0.0493</b>
	10/29/03	<b>0.00751</b>	<b>0.270</b>	0.00100 M	<b>0.0172</b>	<b>0.0354</b>	<b>0.0193</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0924</b>
	01/30/04	0.00100 M	<b>0.0116</b>	0.00100 M	<b>0.00105</b>	0.00200 M	0.00100 M	0.000200 M	0.00100 M	0.00100 M	<b>0.00575</b>
	04/29/04	<b>0.00861</b>	<b>0.0244</b>	0.00100 M	<b>0.00126</b>	<b>0.0245</b>	<b>0.00119</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0136</b>
	07/26/04	<b>0.0137</b>	<b>0.164</b>	0.00631 M	<b>0.0147</b>	<b>0.0311</b>	<b>0.0143</b>	0.000200 M	<b>0.00114</b>	0.00100 M	<b>0.0785</b>
	11/01/04	<b>0.116</b>	<b>0.0818</b>	0.00100 M	<b>0.00467</b>	<b>0.00903</b>	<b>0.00431</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.0238</b>
	02/02/05	<b>0.00933</b>	<b>0.0291</b>	0.00100 M	0.00100 M	0.00200 M	<b>0.00104</b>	0.000200 M	0.00200 M	0.00100 M	0.00500 M

**TABLE 4**  
**GROUNDWATER ANALYTICAL - TOTAL METALS**  
 Kinder Morgan Liquid Terminals LLC  
 Linnton Terminal  
 Portland, Oregon

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
MW-23	07/26/04	<b>0.0559</b>	<b>0.551</b>	0.00663 M	<b>0.0442</b>	<b>0.0498</b>	<b>0.0165</b>	0.000200 M	<b>0.00156</b>	0.00100 M	<b>0.152</b>
	11/01/04	<b>0.0562</b>	<b>0.765</b>	0.00936	<b>0.177</b>	<b>0.188</b>	<b>0.0641</b>	<b>0.000455</b>	<b>0.00132</b>	0.00100 M	<b>0.406</b>
DUP	11/01/04	<b>0.0535</b>	<b>0.730</b>	0.00807 M	<b>0.170</b>	<b>0.187</b>	<b>0.0630</b>	<b>0.000364</b>	0.00100 M	0.00100 M	<b>0.394</b>
MW-24	07/26/04	<b>0.118</b>	<b>2.64</b>	0.0318 M	<b>0.394</b>	<b>0.508</b>	<b>0.341</b>	<b>0.000243</b>	<b>0.00805</b>	0.00500 M	<b>1.31</b>
	11/01/04	<b>0.0616</b>	<b>2.48</b>	0.00100 M	<b>0.393</b>	<b>0.480</b>	<b>0.268</b>	<b>0.000372</b>	<b>0.00183</b>	<b>0.00135</b>	<b>1.29</b>
	02/02/05	<b>0.0118</b>	<b>0.975</b>	0.00100 M	<b>0.0463</b>	<b>0.0620</b>	<b>0.0731</b>	0.000200 M	0.00100 M	0.00100 M	<b>0.158</b>
RW-1	11/26/02*	<b>0.0168</b>	<b>0.183</b>	0.00100 U	<b>0.00852</b>	<b>0.01990</b>	<b>0.00798</b>	0.000200 U	0.00100 U	0.00100 U	<b>0.0868</b>
RW-2	11/26/02*	<b>0.00760</b>	<b>0.206</b>	<b>0.00385</b>	<b>0.0104</b>	<b>0.0226</b>	<b>0.0105</b>	0.000200 U	0.00100 U	0.00100 U	<b>0.0795</b>
RW-3	11/26/02*	<b>0.00444</b>	<b>0.132</b>	0.00100 U	<b>0.00276</b>	<b>0.00711</b>	<b>0.00270</b>	0.000200 U	<b>0.00133</b>	0.00100 U	<b>0.0129</b>

**NOTES:**

Total Metals analyzed by USEPA Method 6000/7000 Series Method

mg/l = Milligrams per liter

NA = Not Analyzed

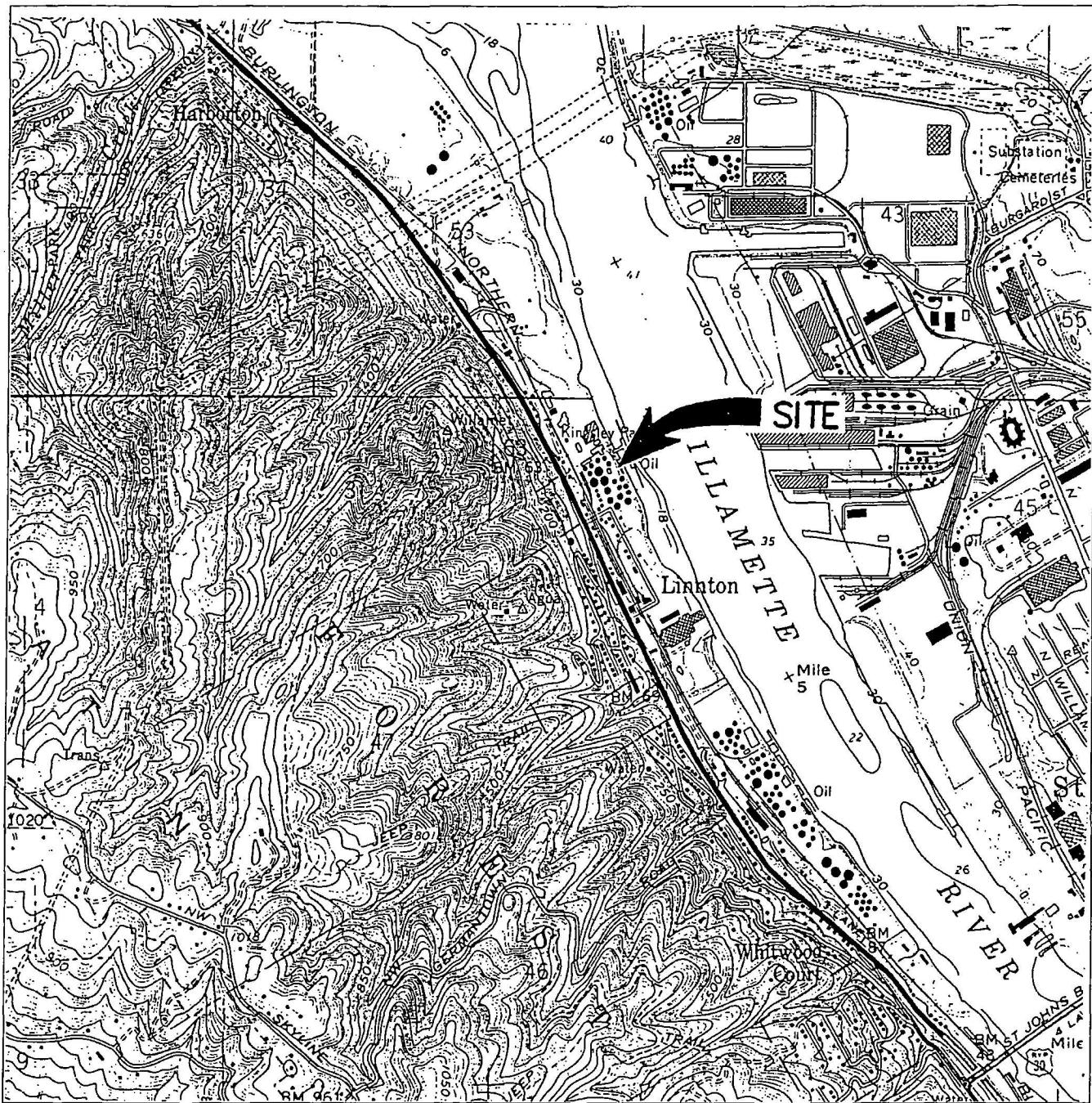
J = Estimated Value

U = Analyte included in the analysis but not detected above laboratory method detection limits (MDLs)

M = Analyte included in the analysis but not detected above laboratory method reporting limits (MRLs)

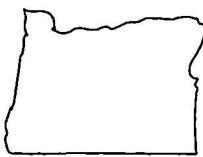
**Bold Face Font** = Analyte detected above the MRLs

\* = Additional RI Sampling



REFERENCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP  
LINNTON, OREGON, 1961  
PHOTOREVISED 1984

SCALE 1 : 25,000



QUADRANGLE LOCATION



**FIGURE 1**

**SITE LOCATION MAP**

**Kinder Morgan Liquid Terminals LLC - Linnton Terminal**  
11400 NW St. Helens Road  
Portland, Oregon

PROJECT NO. PTKM-001-3.0001	DRAWN BY CRF
FILE NO.	PREPARED BY CRF 11/13/03
REVISION NO.	REVIEWED BY



